

1958
CENSUS OF MANUFACTURES

VOLUME I
PART 2
PRELIMINARY REPORTS

MAJOR GROUPS 29-39

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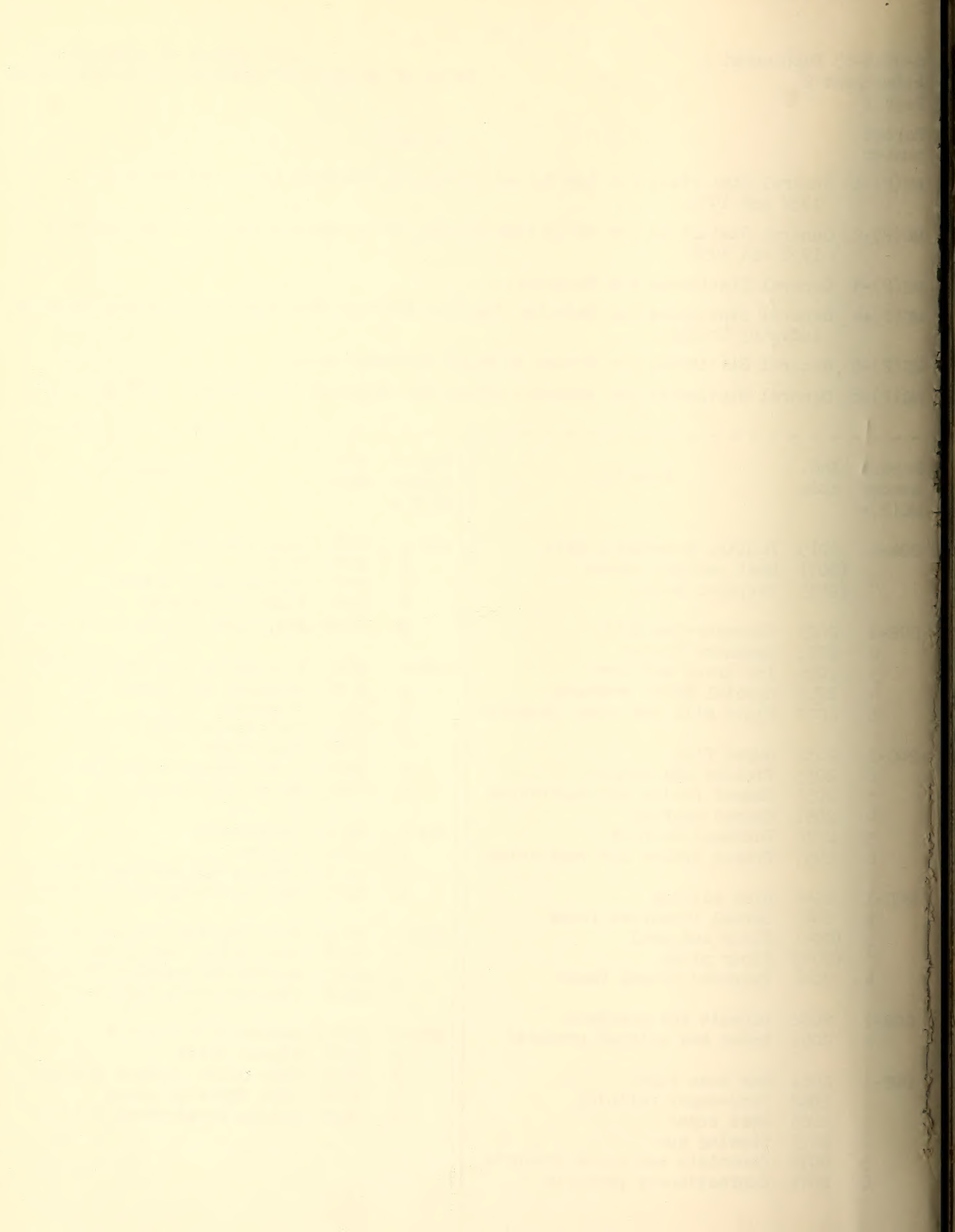
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SUMMARY

- MC(P)-1 General Statistics for the United States, by Industry Group and Industry:
1958 and 1954.
- MC(P)-2 General Statistics for the United States, by Geographic Divisions and States:
1958 and 1954.
- MC(P)-3 General Statistics for Counties.
- MC(P)-4 General Statistics for Selected Standard Metropolitan Statistical Areas by Major
Industry Groups.
- MC(P)-5 General Statistics for States by Major Industry Groups.
- MC(P)-6 General Statistics for Industry Groups and Selected Industries: 1958 and 1954.

Report number	Ind. code	Industry	Report number	Ind. code	Industry
MC(P)-			MC(P)-		
20A-1	2015	Poultry dressing plants	20G-1	2082	Beer and ale
2	(2011	Meat packing plants	2	2083	Malt
	(2013	Prepared meats	3	2081	Bottled soft drinks
			4	2084	Wines and brandy
20B-1	2023	Concentrated milk	5	2085	Distilled liquor, exc. brandy
2	2021	Creamery butter			
3	2024	Ice cream and ices	20H-1	2092	Shortening and cooking oils
4	2025	Special dairy products	2	2098	Macaroni and spaghetti
5	2027	Fluid milk and other products	3	2093	Margarine
			4	2094	Corn wet milling
20C-1	2032	Cured fish	5	2095	Flavorings
2	2035	Pickles and sauces	6	2099	Food preparations, n.e.c.
3	2033	Canned fruits and vegetables	7	2097	Manufactured ice
4	2031	Canned seafood			
5	2036	Packaged seafood	21A-1	2111	Cigarettes
6	2037	Frozen fruits and vegetables	2	2121	Cigars
			3	2131	Chewing and smoking tobacco
20D-1	2044	Rice milling	4	2141	Tobacco stemming and redrying
2	2043	Cereal breakfast foods			
3	(2041	Flour and meal	22A-1	2211	Scouring and combing plants
	(2045	Flour mixes	2	2212	Yarn mills, wool, exc. carpet
4	2042	Prepared animal feeds	3	(2213	Woolen and worsted fabrics
				(2216	Finished wool textiles
20E-1	2052	Biscuit and crackers			
2	2051	Bread and related products	22B-1	2241	Narrow fabric mills
			2	2223	Thread mills
20F-1	2061	Raw cane sugar	3	2224	Yarn mills, cotton system
2	2062	Cane-sugar refining	4	2222	Yarn throwing mills
3	2063	Beet sugar	5	2233	Cotton broad-woven fabrics
4	2073	Chewing gum			
5	2072	Chocolate and cocoa products			
6	2071	Confectionery products			



Report number MC(P)-	Ind. code	Industry	Report number MC(P)-	Ind. code	Industry
22C-1	2251	Full-fashioned hosiery mills	23E-1	2385	Waterproof outer garments
2	2252	Seamless hosiery mills	2	2387	Belts
3	2256	Knit fabric mills	3	2386	Leather and sheep-lined clothing
4	2254	Knit underwear mills	4	2384	Robes and dressing gowns
5	2253	Knit outerwear mills			
22D-1	2274	Hard-surface floor coverings	23F-1	2391	Curtains and draperies
2	2271	Wool carpets and rugs (Change Sheet)	2	2395	Tucking, pleating, and stitching
3	2273	Carpets and rugs, exc. wool	3	2397	Schiffli-machine embroideries
22E-1	2283	Straw hats	4	2393	Textile bags
2	2281	Fur-felt hats and hat bodies	5	2394	Canvas products
3	2282	Wool-felt hats and hat bodies	6	2396	Trimmings and art goods
4	2284	Hatter's fur	7	2398	Embroideries, except Schiffli
			8	2399	Fabricated textile products, n.e.c.
22F-1	2295	Coated fabric, exc. rubberized	9	2392	Housefurnishings, n.e.c.
2	2291	Felt goods, n.e.c.			
3	2292	Lace goods	24A-1	2411	Logging camps and contractors
4	2298	Cordage and twine	2	2423	Shingle mills
5	2293	Padding and upholstery filling	3	2425	Excelsior mills
6	2294	Processed textile waste	4	2424	Cooperage stock mills
23A-1	2311	Men's and boys' suits and coats	5	2422	Veneer mills
			6	2421	Sawmills and planing mills
23B-1	2328	Work shirts	24B-1	2431	Millwork plants
2	2325	Men's and boys' cloth hats	2	2433	Prefabricated wood products
3	2323	Men's and boys' neckwear	3	2432	Plywood plants
4	2327	Separate trousers	24C-1	2445	Cooperage
5	2322	Men's and boys' underwear	2	2441	Fruit and vegetable baskets
6	2321	Men's dress shirts and nightwear	3	2444	Wooden boxes
7	2329	Men's and boys' clothing, n.e.c.	24D-1	2491	Wood preserving
23C-1	2331	Blouses	25A-1	2511	Wood house furniture not upholstered
2	2334	Dresses, dozen price	2	2512	Upholstered household furniture
3	2333	Dresses, unit price	3	2514	Metal household furniture
4	2339	Women's outerwear, n.e.c.	4	2515	Mattresses and bedsprings
5	2337	Women's suits, coats, and skirts			
23D-1	2342	Corsets and allied garments	25B-1	2521	Wood office furniture
2	2351	Millinery	2	2522	Metal office furniture
3	2361	Children's dresses	3	2532	Professional furniture
4	2363	Children's coats	4	2531	Public-building furniture
5	2341	Women's and children's underwear	5	2541	Partitions and fixtures

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Report number MC(P)-	Ind. code	Industry
25C-1	2562	Window shades
2	2561	Window and door screens
3	2563	Venetian blinds
26A-1	2613	Building paper and board mills
2	2612	Paper and paperboard mills
26B-1	2661	Paper bags
2	2693	Wallpaper
3	2651	Envelopes
4	2671	Paperboard boxes
5	2674	Fiber cans, tubes, drums, etc.
6	2694	Pulp goods, pressed and molded
7	2691	Die-cut paper and board
8	2641	Paper coating and glazing
9	2699	Paper and board products, n.e.c.
27A-1	2732	Book printing
2	2741	Miscellaneous publishing
3	2731	Books: publishing and printing
4	2711	Newspapers
5	2721	Periodicals
27B- Supp.		Special Product Report on Manifold business forms
27B- Supp.		Special report on commercial printing
27B-1	2789	Miscellaneous bookbinding work
2	2782	Blankbooks and paper ruling
3	2761	Lithographing
4	2751	Commercial printing
5	2771	Greeting cards
6	2781	Bookbinding
7	2783	Loose-leaf binders and devices
27C-1	2791	Typesetting
2	2792	Engraving and plate printing
3	2794	Electrotyping and stereotyping
4	2793	Photoengraving

Report number MC(P)-	Ind. code	Industry
28A-1	2812	Alkalies and chlorine
2	2819	Inorganic chemicals, n.e.c.
28B-1	2821	Cyclic (coal tar) crudes
2	2824	Synthetic rubber
3	2822	Intermediates and organic colors
4	2826	Explosives
5	2829	Organic chemicals, n.e.c.
6	2825	Synthetic fiber
7	2823	Plastics materials
28C-1	2833	Medicinal chemicals (including botanicals)
2	2831	Biological products
3	2834	Pharmaceutical preparations
28D-1	2843	Sulfonated oils and assistants
2	2842	Cleaning and polishing preparations
3	2841	Soap and glycerin
28E-1	2853	Whiting and fillers
2	2852	Inorganic color pigments
3	2851	Paints and varnishes
28F-1	2862	Softwood distillation
2	2861	Hardwood distillation
3	2863	Gum naval stores
4	2871	Fertilizers
28G-1	2887	Fatty acids
2	2881	Cottonseed oil mills
3	2882	Linseed oil mills
4	2883	Soybean oil mills
5	2886	Grease and tallow
28H-1	2891	Printing ink
2	2895	Carbon black
3	2894	Glue and gelatin
4	2896	Compressed and liquefied gases
5	2897	Insecticides and fungicides
6	2899	Chemical products, n.e.c.
7	2893	Toilet preparations
29A-1	2952	Roofing felts and coatings
2	2951	Paving mixtures and blocks
3	(2911)	Petroleum refining and lubricants, n.e.c.
	(2992)	

Report number MC(P)-	Ind. code	Industry
30A-1	3021	Rubber footwear
2	3011	Tires and inner tubes
3	3031	Reclaimed rubber
4	3099	Rubber industries, n.e.c.
31A-1	3121	Industrial leather belting
2	3131	Footwear cut stock
3	3141	Footwear, except rubber
4	3142	House slippers
5	3111	Leather tanning and finishing
31B-1	3172	Small leather goods
2	3161	Luggage
3	3171	Handbags and purses
4	3151	Leather dress gloves
5	3152	Leather work gloves
32A-1	3221	Glass containers
2	3229	Pressed and blown glass, n.e.c.
3	3211	Flat glass
4	3231	Products of purchased glass
32B-1	3253	Floor and wall tile
2	3254	Sewer pipe
3	3251	Brick and hollow tile
4	3255	Clay refractories
5	3241	Cement, hydraulic
32C-1	3264	Porcelain electrical supplies
2	3261	Vitreous plumbing fixtures
3	3262	Vitreous-china food utensils
4	3263	Earthenware food utensils
32D-1	3272	Gypsum products
2	3274	Lime
3	3271	Concrete products
4	3273	Ready-mixed concrete
5	3275	Mineral wool
6	3281	Cut-stone and stone products
32E-1	3291	Abrasive products
2	3293	Gaskets and asbestos insulations
3	3299	Nonmetallic mineral products, n.e.c.
4	3297	Nonclay refractories
5	3295	Minerals: ground or treated
6	3292	Asbestos products

Report number MC(P)-	Ind. code	Industry
33A-1	3313	Electrometallurgical products
2	3322	Malleable-iron foundries
3	3321	Gray-iron foundries
4	3323	Steel foundries
5	3312	Steel works and rolling mills
33B-1	3331	Primary copper
2	3332	Primary lead
3	3334	Primary aluminum
4	3333	Primary zinc
5	3341	Secondary nonferrous metals
33C-1	3361	Nonferrous foundries
2	3351	Copper rolling and drawing
3	3352	Aluminum rolling and drawing
33D-1	3393	Welded and heavy-riveted pipe
2	3391	Iron and steel forgings
3	3399	Primary metal industries, n.e.c.
4	3392	Wire drawing
34A-1	3421	Cutlery
2	3423	Hand tools, n.e.c.
3	3422	Edge tools
4	3429	Hardware, n.e.c.
5	3411	Tin cans and other tinware
6	3425	Hand-saws and saw blades
34B-1	3431	Plumbing fixtures and fittings
2	(3439	Heating and cooking
	(3432	apparatus, n.e.c.
34C-1	3442	Metal doors, sash, and trim
2	3444	Sheet-metal work
3	3443	Boiler shop products
4	3441	Structural and ornamental products
34D-1	3461	Vitreous-enameled products
2	3463	Metal stampings
34E-1	3481	Nails and spikes
2	3471	Lighting fixtures
3	3489	Wirework, n.e.c.

Report number MC(P)-	Ind. code	Industry	Report number MC(P)-	Ind. code	Industry
34F-1	3494	Bolts, nuts, washers, and rivets	35F-1	3586	Measuring and dispensing pumps
2	3497	Metal foil	2	3582	Laundry and dry-cleaning machinery
3	3492	Safes and vaults	3	3583	Sewing machines
4	3493	Steel springs	4	3581	Domestic laundry equipment
5	3495	Screw machine products	5	3584	Vacuum cleaners
6	3496	Collapsible tubes	6	3585	Refrigeration machinery
7	3491	Metal barrels, drums, and pails	35G-1	3594	Industrial patterns and molds
35A-1	3511	Steam engines and turbines	2	3593	Ball and roller bearings
2	3532	Oil field machinery and tools	3	3592	Fabricated pipe and fittings
3	3521	Tractors	4	3591	Valves and fittings, except plumbing
4	3522	Farm machinery (exc.tractors)	36A-1	3611	Wiring devices and supplies
5	3519	Internal combustion engines	2	3616	Electrical control apparatus
6	3531	Construction and mining machinery	3	3615	Transformers
35B-1	3544	Special dies and tools	4	3617	Electrical welding apparatus
2	3542	Metalworking machinery	5	3612	Carbon and graphite products
3	3545	Metalworking machinery attachments	6	3613	Electrical measuring instruments
4	3541	Machine tools	7	3614	Motors and generators
35C-1	3554	Paper-industries machinery	36B-1	3651	Electric lamps (bulbs)
2	3551	Food-products machinery	2	3621	Electrical appliances
3	3553	Woodworking machinery	3	3641	Engine electrical equipment
4	3555	Printing-trades machinery	4	3631	Insulated wire and cable
5	3552	Textile machinery	4	3631	Insulated wire and cable
6	3559	Special-industry machinery, n.e.c.	(Rev)		(change sheet)
35D-1	3566	Power-transmission equipment	36C-1	3663	Phonograph records
2	3568	Mechanical stokers	2	3662	Electronic tubes
3	3563	Conveyors	3	3661	Radios and related products
4	3564	Blowers and fans	4	3664	Telephone and telegraph equipment
5	3567	Industrial furnaces and ovens	36D-1	3693	X-ray and therapeutic apparatus
6	3565	Industrial trucks and tractors	2	3691	Storage batteries
7	3562	Elevators and escalators	3	3692	Primary batteries
8	3561	Pumps and compressors	37A-1	3715	Truck trailers
35E-1	3572	Typewriters	2	3716	Automotive trailers
2	3576	Scales and balances	3	3713	Truck and bus bodies
3	3571	Computing and related machines	4	3717	Motor vehicles and parts
4	3579	Office and store machines, n.e.c.	37A- Supp.		Special product report on production and use of automotive parts

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Report number MC(P)-	Ind. code	Industry
37B-1	3723	Aircraft propellers
2	3722	Aircraft engines
3	3721	Aircraft
4	3729	Aircraft equipment, n.e.c.
37C-1	3751	Motorcycles and bicycles
2	3731	Ship building and repairing
3	3732	Boat building and repairing
4	3741	Locomotives and parts
5	3742	Railroad and street cars
38A-1	3841	Surgical and medical instruments
2	3842	Surgical appliances & supplies
3	3843	Dental equipment and supplies
4	3851	Ophthalmic goods
5	3831	Optical instruments and lenses
6	3811	Scientific instruments
7	3821	Mechanical measuring instruments
38B-1	3861	Photographic equipment
2	3872	Watchcases
3	3871	Watches and clocks
39A-1	3912	Jewelers' findings
2	3913	Lapidary work
3	3914	Silverware and plated ware
4	3911	Jewelry (precious metal)

Report number MC(P)-	Ind. code	Industry
39B-1	3931	Pianos
2	3939	Musical instruments, n.e.c.
3	3933	Piano and organ parts
4	3943	Children's vehicles
5	3942	Dolls
6	3949	Sporting and athletic goods
7	3932	Organs
8	3941	Games and toys, n.e.c.
39C-1	3953	Hand stamps and stencils
2	3954	Artists' materials
3	3955	Carbon paper and inked ribbons
4	3962	Artificial flowers
5	3952	Lead pencils and crayons
6	3961	Costume jewelry
7	3963	Buttons
8	3964	Needles, pins, and fasteners
9	3951	Pens and mechanical pencils
39D-1	3984	Candles
2	3985	Fireworks and pyrotechnics
3	3986	Jewelry and instrument cases
4	3987	Lamp shades
5	3981	Brooms and brushes
6	3983	Matches
7	3988	Morticians' goods
8	3971	Plastics products, n.e.c.
39E-1	3995	Umbrellas, parasols, and canes
2	3997	Soda-fountain and bar equipment
3	3993	Signs and advertising displays
4	3992	Furs, dressed and dyed

GROUP 29

GROUP 30

GROUP 31

GROUP 32

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GROUP 30

GROUP 31

GROUP 32

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-29A-1

ROOFING FELTS AND COATINGS INDUSTRY

(Industry Code 2952--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Roofing Felts and Coatings Industry shipped products valued at \$463 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 15.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$159 million in 1958, an increase of 2 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ROOFING FELTS AND COATINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 2952)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.5	15.7	-1
Payroll.....	Million dollars....	77.5	68.1	+14
Production workers:				
Number.....	Thousands.....	11.6	12.5	-7
Man-hours.....	Millions.....	24.3	27.0	-10
Wages.....	Million dollars....	54.1	50.9	+6
Value added by manufacture, unadjusted ².....	.....do.....	149.6	149.3	...
Value added by manufacture, adjusted ³.....	.....do.....	159.0	155.6	+2
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	304.8	276.8	+10
Value of shipments ⁵.....	.....do.....	462.9	431.6	+7
Capital expenditures, new.....	.....do.....	6.6	7.8	-15
Number of establishments with 20 or more employees ⁶	Number.....	129	120	+7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

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The Roofing Felts and Coatings Industry includes establishments engaged primarily in the manufacture of asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings, asphalt sidings, asphalt saturated fabrics, mastic roofing composition, and asphalt board products. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Roofing Felts and Coatings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Roofing Felts and Coatings Industry amounted to \$463 million. Of this total, \$376 million were products primary to the industry, \$42 million were products primary to other industries, and \$45 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$409 million of roofing felts and coatings were shipped by all producers of these products. Of this total, \$376 million, or 92 percent, were shipped by plants classified in Industry 2952, Roofing Felts and Coatings, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorized an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ROOFING FELTS AND COATINGS INDUSTRY (S.I.C. CODE 2952), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States total.....	15,533	77,489	11,563	24,262	54,114	149,588	158,966	462,936	6,572	129	15,730	149,323
New England.....	665	3,380	550	1,268	2,624	5,790	6,205	19,029	161	5	760	8,081
Middle Atlantic.....	2,775	14,502	2,149	4,558	10,316	25,825	26,884	85,937	1,412	26	3,248	28,701
New York.....	334	1,762	216	408	995	1,867	2,178	8,258	49	6	492	3,868
New Jersey.....	1,649	8,757	1,283	2,756	6,347	16,294	16,930	51,031	1,071	13	1,888	16,358
Pennsylvania.....	792	3,983	650	1,334	2,974	7,664	7,776	26,648	292	7	868	8,475
East North Central.....	5,273	26,211	4,081	8,240	19,284	51,087	55,880	149,347	2,651	32	5,868	54,427
Ohio.....	1,558	7,308	1,180	2,417	5,312	19,543	19,607	36,614	476	8	1,795	20,334
Indiana.....	370	1,838	254	552	1,226	2,795	3,343	11,876	308	4	511	3,818
Illinois.....	3,246	16,687	2,565	5,137	12,454	27,946	32,107	97,775	1,854	19	3,372	28,636
West North Central.....	961	4,862	762	1,594	3,406	8,983	9,245	28,741	323	9	936	8,924
Missouri.....	526	2,544	438	888	1,959	4,437	4,497	14,440	127	5	490	4,792
South Atlantic.....	1,083	5,336	870	1,860	3,974	10,653	11,592	42,569	574	14	867	7,863
East South Central.....	528	2,111	410	826	1,559	4,164	4,196	14,455	167	6	583	6,423
West South Central.....	2,502	11,313	1,491	3,169	6,220	20,366	21,369	61,937	635	20	1,434	13,918
Pacific.....	1,622	9,159	1,154	2,534	6,330	21,755	22,525	57,697	625	15	1,793	20,072

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

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Table 3.--QUANTITY AND VALUE OF ROOFING FELTS AND COATINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Roofing Felts and Coatings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2952--	Roofing felts and coatings, total.....		xxx	408,611	xxx	388,237
29521--	Asphalt and tar roofing, sidings, and felts, total.....		xxx	315,264	xxx	324,078
	Asphalt roofing:					
2952111	Smooth-surfaced roll roofing and cap sheet (including sanded, talc, mica, and other fine material surfacing).....	Thousand square...	10,246	17,752	11,949	20,002
2952113	Mineral-surfaced roll roofing and cap sheet (including 17" and 19" selvage edged).....	do.....	13,148	30,379	12,937	28,675
2952115	Strip shingles, all styles.....	do.....	31,047	152,435	29,770	144,674
2952117	Individual shingles, all styles.....	do.....	4,348	19,862	4,448	20,324
	Asphalt building sidings:					
2952131	Roll form and shingle form, all patterns.....	do.....	1,071	2,980	xxx	3,998
2952135	Mineral-surfaced insulating board and base siding (all types and finishes).....	do.....	1,504	18,759	2,303	23,914
	Asphalt and tar saturated felts:					
	For roofing and siding:					
2952151	Asphalt.....	Short ton.....	881,141	53,535	911,367	67,738
2952155	Tar.....	do.....	103,585	6,940	164,304	14,646
2952157	For other than building purposes (automotive, etc.).....	do.....	85,750	10,577	(¹)	(¹)
2952100	Asphalt and tar roofing, sidings and felts, not specified by kind.....	xxx	2,045	xxx	xxx	107
29522--	Asphalt and tar coatings, cements, and pitches, total.....	Short ton.....	xxx	66,479	xxx	41,928
2952211	Solid asphalt roof cement.....	do.....	280,342	12,149	331,988	9,939
2952231	Coal tar roofing pitch.....	do.....	xxx	(²)	xxx	(²)
	Roofing coatings:					
2952251	Fibrous.....	do.....	555,305	25,427	xxx	17,077
2952255	Non-fibrous.....	do.....	550,932	19,811	xxx	8,849
2952200	Asphalt and tar coatings, cements, and pitches, not specified by kind.....	xxx	9,092	xxx	xxx	6,063
29523--	Other asphalt and tar products, total.....	xxx	22,359	xxx	xxx	22,231
2952355	For other than building purposes (automotive, etc.).....	xxx	8,905			
2952398	For roofing and siding (including board products and sheathing).....	Short ton.....	354,652	12,735	xxx	22,231
2952300	Other asphalt and tar products, not specified by kind.....	xxx	719			
2952000	Roofing felts and coatings, not specified by kind.....	xxx	4,509			

xxx Not applicable

¹Included in asphalt and tar saturated felts for roofing and siding.²Withheld to avoid disclosing figures for individual companies. The value reported for coal tar roofing pitch is included in asphalt and tar coatings, cements, and pitches, not specified by kind.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -29A-2

PAVING MIXTURES AND BLOCKS INDUSTRY

(Industry Code 2951--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Paving Mixtures and Blocks Industry shipped products valued at \$264 million, an increase of 98 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 77 percent from 1954 to 1958 to a total of 7.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$112 million in 1958, an increase of 116 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE PAVING MIXTURES AND BLOCKS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 2951)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.8	4.4	+77
Payroll.....	Million dollars...	42.1	20.1	+109
Production workers:				
Number.....	Thousands.....	5.8	3.3	+76
Man-hours.....	Millions.....	11.8	6.7	+76
Wages.....	Million dollars...	27.9	12.5	+123
Value added by manufacture, unadjusted ².....	..do.....	109.0	50.3	+117
Value added by manufacture, adjusted ³.....	..do.....	112.3	52.1	+116
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	151.8	81.3	+87
Value of shipments ⁵.....	..do.....	264.3	133.2	+98
Capital expenditures, new.....	..do.....	9.5	5.4	+76
Number of establishments with 20 or more employees ⁶	Number.....	92	47	+96

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

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The Paving Mixtures and Blocks Industry includes establishments engaged primarily in the manufacture of asphalt and tar paving mixtures and in manufacturing paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Plants primarily engaged in producing emulsified asphalt, unless made in petroleum refineries, are also included. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Paving Mixtures and Blocks Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Paving Mixtures and Blocks Industry amounted to \$264 million. Of this total, \$221 million were products primary to the industry, \$17 million were products primary to other industries, and \$26 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (pri-

mary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$250 million of paving mixtures and blocks were shipped by all producers of these products. Of this total, \$221 million, or 89 percent, were shipped by plants classified in Industry 2951, Paving Mixtures and Blocks while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.—GENERAL STATISTICS FOR THE PAVING MIXTURES AND BLOCKS INDUSTRY (S.I.C. CODE 2951), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,849	42,133	5,792	11,834	27,870	109,031	112,343	264,315	9,524	92	4,367	50,260
New England.....	757	4,101	573	1,150	2,875	9,816	9,373	23,359	416	11	372	4,223
Massachusetts.....	391	2,116	304	605	1,489	5,666	5,722	14,212	165	7	285	3,024
Middle Atlantic.....	1,695	10,158	1,148	2,489	5,720	28,418	30,414	71,462	3,278	19	1,232	16,533
New York.....	909	6,080	550	1,230	3,070	17,114	17,961	39,162	1,647	12	666	9,897
Pennsylvania.....	568	2,745	440	928	1,874	7,576	8,152	21,186	1,415	6	346	3,677
East North Central.....	1,547	9,174	1,091	2,315	5,529	19,799	20,750	54,020	2,006	19	987	11,364
Ohio.....	461	2,802	310	711	1,598	6,743	6,924	19,972	630	5	329	4,478
Michigan.....	366	2,092	309	579	1,534	5,223	5,274	14,953	557	6	168	1,733
West North Central.....	608	2,940	469	847	2,177	6,906	7,255	14,875	281	5	238	2,424
Missouri.....	374	1,771	292	522	1,386	4,571	4,791	8,605	130	3	188	1,997
South Atlantic.....	1,037	4,904	861	1,851	3,608	13,953	14,115	32,199	1,404	11	599	5,916
Maryland.....	399	2,006	359	784	1,647	6,830	7,013	12,682	273	3	287	2,550
East South Central.....	420	1,558	342	690	1,143	5,396	5,425	11,988	923	3	219	1,712
Alabama.....	300	1,053	258	515	839	2,972	2,973	6,298	651	3	167	1,214
West South Central.....	387	1,379	326	589	1,043	3,563	3,629	7,510	436	7	190	2,051
Pacific.....	1,182	6,844	845	1,613	5,001	18,354	18,580	43,628	680	15	455	5,456

¹Each producing State not shown separately in the above table was withheld, either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PAVING MIXTURES AND BLOCKS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Paving Mixtures and Blocks Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 (42 gal.) bbls.)	Value (\$1,000)	Quantity (1,000 (42 gal.) bbls.)	Value (\$1,000)
2951----	Paving mixtures and blocks, total.....	xxx	250,246	xxx	120,717
	Liquid asphalt and tar paving materials:				
2951011	Emulsified asphalt ¹	6,601	35,638	4,751	21,644
2951015	Other liquid asphalt and tar paving materials.....	2,528	14,695	1,665	9,325
2951051	Asphalt and tar paving mixtures and blocks ²	xxx	182,818	xxx	73,907
2951098	Other paving mixtures and blocks, except brick, concrete, granite or stone.....	xxx	5,377	xxx	15,841
2951000	Paving mixtures and blocks, not specified by kind.....	xxx	11,718		

xxx Not applicable.

¹Excludes quantities produced in petroleum refineries, data for which are included in the statistics for code 2911711, Asphalt of 200 penetration and over, in Industry 2911, Petroleum Refining.

²Excludes data reported by establishments classified in the Mineral Industries.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC (P) -29A-3

PETROLEUM REFINING AND LUBRICANTS, N.E.C., INDUSTRY

(Industry Codes 2911 and 2992--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Petroleum Refining Industry (S.I.C. 2911) shipped products valued at \$14,535 million, and manufacturers in the Lubricants, Not Elsewhere Classified, Industry (S.I.C. 2992) \$279 million, increases of 19 percent and 5 percent, respectively over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in the Petroleum Refining Industry decreased 5 percent from 1954 to a total of 146.1 thousand employees, while employment in the Lubricants, N.E.C., Industry decreased 8 percent to a total of 7.5 thousand in 1958. Value added by manufacture in the Petroleum Refining Industry amounted to \$2,112 million in 1958, an increase of 10 percent from 1954, while the Lubricants, N.E.C., Industry amounted to \$101 million, an increase of 12 percent from 1954. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries of geographic areas. No adjustments have been made in

the money figures shown in this report for changes in price levels from 1954 to 1958.

The Petroleum Refining Industry includes establishments engaged primarily in the manufacturing of gasoline, fuel oils, lubricants, illuminating oils, kerosene, petroleum waxes, liquefied gases, asphalt, unfinished oils, and other finished petroleum products from crude petroleum and its fractionation in petroleum refineries. Establishments primarily engaged in re-refining or reclaiming used oils (crankcase draining) by a distillation process are also included in this industry. Refineries engaged in blending and compounding lubricants are included in Industry 2911 but establishments primarily engaged in blending and compounding lubricants from purchased materials are classified in Industry 2992, Lubricants, N.E.C. Establishments engaged in producing natural gasoline or cycle condensates from natural gas are classified in Mineral Industries and petroleum bulk stations or distribution terminals are classified in Wholesale Trade. Activities relating to pipe-line and other long distance transportation facilities are classified as transportation and were excluded from the 1958 Census of Business, Manufactures, and Mineral Industries.

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Petroleum Refining and Lubricants, N.E.C., Industries consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Petroleum Refining Industry amounted to \$14,535 million. Of this total, \$13,825 million were products primary to the industry, \$226 million were products primary to other industries, and \$484 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 99 percent.

The total value of shipments and other receipts of establishments classified in the Lubricants, N.E.C., Industry amounted to \$279 million. Of this total \$221 million were products primary to the industry, \$45 million were products primary to other industries, and \$13 million were receipts for miscellaneous activities. The industry shipments of primary products represented 85 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for an industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of that industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$14,135 million of petroleum products and other products primary to Industries 2911 and 2992 were shipped by all producers of these products. Of this total, \$13,826 million, or 98 percent, were shipped by plants classified in Industry 2911, Petroleum Refining, and \$221 million were shipped

by plants classified in Industry 2992. The remainder totaling \$88 million was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for these industries will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 1a.--GENERAL STATISTICS FOR THE PETROLEUM REFINING INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 2911)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	146.1	153.1	-5
Payroll.....	Million dollars...	944.7	816.1	+16
Production workers:				
Number.....	Thousands.....	106.9	113.8	-6
Man-hours.....	Millions.....	207.8	223.1	-7
Wages.....	Million dollars...	648.4	570.8	+14
Value added by manufacture, unadjusted ².....	..do.....	2,260.6	1,901.3	+19
Value added by manufacture, adjusted ³.....	..do.....	2,112.3	1,918.0	+10
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	12,259.3	10,258.7	+20
Value of shipments ⁵.....	..do.....	14,535.4	12,182.2	+19
Capital expenditures, new.....	..do.....	601.4	656.0	-8
Number of establishments with 20 or more employees ⁶	Number.....	313	316	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 1b.--GENERAL STATISTICS FOR THE LUBRICANTS, NOT ELSEWHERE CLASSIFIED, INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 2992)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.5	8.2	-8
Payroll.....	Million dollars...	41.9	40.1	+4
Production workers:				
Number.....	Thousands.....	4.4	4.7	-6
Man-hours.....	Millions.....	8.5	9.4	-10
Wages.....	Million dollars...	20.3	18.9	+7
Value added by manufacture, unadjusted ².....	..do.....	97.1	85.1	+14
Value added by manufacture, adjusted ³.....	..do.....	101.2	90.7	+12
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	177.3	172.6	+3
Value of shipments ⁵.....	..do.....	279.3	265.1	+5
Capital expenditures, new.....	..do.....	7.2	4.3	+67
Number of establishments with 20 or more employees ⁶	Number.....	89	84	+6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

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Table 2.--GENERAL STATISTICS FOR THE PETROLEUM REFINING INDUSTRY (S.I.C. CODE 2911), AND LUBRICANTS, N.E.C., INDUSTRY (S.I.C. CODE 2992) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
PETROLEUM REFINING												
United States, total.....	146,074	944,657	106,921	207,795	648,396	2 260,561	2,112,320	14,535,432	601,448	313	153,072	1,901,333
Northeast.....	24,495	157,504	18,318	35,069	110,905	257,824	216,957	2,123,558	94,925	32	30,696	290,530
New York.....	1,522	9,825	1,089	2,186	6,977	16,433	12,221	151,214	7,891	5	2,322	17,078
Pennsylvania.....	14,099	87,362	11,186	21,611	64,869	142,630	128,642	1,071,874	36,745	15	15,008	154,623
East North Central.....	25,347	169,056	18,780	36,193	117,789	411,704	404,138	2,455,476	114,488	51	27,834	408,682
Ohio.....	4,595	31,603	3,394	6,752	22,243	101,341	101,491	645,825	27,006	11	4,939	81,192
Indiana.....	9,156	60,038	6,924	13,185	43,720	102,596	102,441	693,123	34,924	9	10,820	126,390
Illinois.....	9,377	60,716	6,941	13,066	42,265	163,729	157,598	880,511	46,205	14	10,065	159,342
Michigan.....	1,982	15,374	1,351	2,850	8,628	41,446	39,590	221,174	4,654	13	1,749	37,177
West North Central.....	6,481	40,522	4,825	9,551	28,542	119,700	122,005	744,112	31,325	23	6,012	74,927
Kansas.....	4,169	25,449	3,245	6,439	18,827	68,179	70,098	472,077	24,318	14	4,132	49,316
South Atlantic.....	2,138	13,948	1,423	2,871	8,462	50,117	52,286	375,515	6,302	14	2,606	29,298
Maryland.....	606	4,027	433	816	2,548	9,629	9,494	95,581	1,258	4	1,885	21,552
East South Central.....	1,585	9,763	1,127	2,423	6,535	31,095	35,525	217,274	3,768	13	1,709	22,220
Kentucky.....	912	5,954	590	1,235	3,619	20,281	24,190	157,132	1,566	4	1,155	14,149
West South Central.....	61,547	398,356	44,824	87,176	273,652	935,100	888,741	6,019,969	260,889	103	60,694	743,377
Arkansas.....	1,154	7,219	883	1,824	5,325	16,070	15,622	103,163	4,995	6	1,238	18,243
Louisiana.....	13,123	88,253	7,922	15,806	50,292	195,201	191,006	1,280,655	57,359	16	12,931	175,988
Oklahoma.....	6,137	35,257	5,180	10,549	29,130	109,148	106,653	625,065	21,907	18	6,897	96,396
Texas.....	41,133	267,627	30,839	58,997	188,905	614,681	575,460	4,011,086	176,628	63	39,627	452,750
Mountain.....	5,698	35,134	4,064	7,917	24,794	105,246	97,890	489,068	20,809	36	5,525	83,727
Montana.....	1,056	6,994	807	1,609	5,146	24,950	23,805	113,164	6,528	8	995	13,677
Wyoming.....	2,431	15,148	1,676	3,223	10,402	35,860	31,706	147,024	4,713	9	2,622	28,620
Colorado.....	591	3,711	460	969	2,873	11,757	10,773	56,010	2,982	6	432	8,722
Utah.....	1,002	6,206	694	1,371	4,100	23,656	22,415	123,984	3,806	6	1,055	26,502
Pacific.....	18,783	120,374	13,560	26,595	77,717	349,775	294,778	2,110,460	68,942	41	17,994	248,572
California.....	17,633	112,341	12,782	25,014	73,009	324,149	264,142	1,967,872	64,089	35	17,814	245,884
LUBRICANTS, N.E.C.												
United States, total.....	7,488	41,946	4,423	8,533	20,296	97,090	101,183	279,325	7,173	89	8,159	85,063
Northeast.....	2,821	16,469	1,737	3,335	8,414	38,829	39,026	102,523	1,910	30	3,224	34,208
New York.....	286	1,500	191	368	772	2,636	2,763	8,621	90	4	267	2,312
Pennsylvania.....	1,061	7,036	575	1,153	3,158	15,667	15,860	34,026	894	13	1,053	13,139
East North Central.....	2,431	14,750	1,183	2,352	5,672	31,668	35,711	90,842	3,177	35	2,440	24,641
Ohio.....	987	6,180	500	1,006	2,558	12,521	12,507	27,538	570	12	878	8,373
Wisconsin.....	294	1,658	94	182	413	2,737	5,211	14,617	691	4	296	1,978
West North Central.....	749	3,772	455	931	1,938	10,962	10,655	31,858	395	8	816	10,720
Missouri.....	346	1,728	219	443	899	6,575	6,375	17,733	156	3	366	6,818
South and West.....	1,487	6,955	1,048	1,915	4,272	15,631	15,791	54,102	1,691	16	1,678	15,495
Louisiana.....	395	2,197	302	608	1,419	4,761	4,564	23,333	825	4	427	5,785
California.....	451	2,369	321	597	1,582	5,142	5,525	15,776	244	5	388	3,452

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PETROLEUM REFINING, AND LUBRICANTS, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Petroleum Refining, and Lubricants, N.E.C., Industries but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958				1954			
			Receipts ¹ (quantity)	Total shipments including interplant transfers		Net shipments ² (quantity)	Receipts ¹ (quantity)	Total shipments including interplant transfers		Net shipments ² (quantity)
				Quantity	Value (excluding tax) (\$1,000)			Quantity	Value (excluding tax) (\$1,000)	
2911— 2992— 2911--	Petroleum products, total.....		xxx	xxx	14,134,513	xxx	xxx	xxx	11,865,167	xxx
2911111	Gasoline and jet-propulsion fuel, total.....	Thousand bbls.	38,668	1,524,607	7,825,383	1,485,939	*44,205	1,292,166	6,548,701	*1,247,961
2911131	Aviation gasoline (except jet propulsion fuel).....	..do.....		113,292	733,058		2,592	86,092	607,397	83,500
2911131	Automotive gasoline.....	..do.....	37,460	1,299,778	6,628,422	1,408,650	*14,983	1,129,815	5,601,148	*1,114,832
2911198	Other finished gasoline (including finished base stocks and blending agents) ³.....	..do.....		33,040	157,573		25,585	29,625	149,878	4,040
2911151	Jet-propulsion fuel.....	..do.....	1,208	78,497	306,330	77,289	1,045	46,634	190,278	45,589
2911211	Kerosene (including range oil) ⁴.....	..do.....	2,156	102,549	411,720	100,393	2,004	109,907	434,852	107,903
29113— 2911311 2911331	Distillate Fuel Oil, total.....	..do.....	18,521	661,345	2,490,998	642,824	*10,451	556,968	2,064,298	*546,517
2911331	Grade No. 1 (including P.S. 100).....	..do.....	xxx	57,630	238,209	xxx	*856	65,012	269,699	*64,156
2911351	Grades No. 2, 3, and 4 (including P.S. 200).....	..do.....	xxx	453,517	1,692,499	xxx	*4,791	338,741	1,233,727	*333,950
2911398	Diesel-type fuel oil (light).....	..do.....	xxx	132,982	497,440	xxx	*1,297	133,031	489,429	*131,734
29114— 2911411 2911431	All other distillate fuel oils (including light gas-enrichment oil).....	..do.....	xxx	17,216	62,850	xxx	3,507	20,184	71,443	16,677
2911451	Residual Fuel Oil, total.....	..do.....	17,297	350,912	817,228	333,615	14,390	398,898	787,783	384,508
2911498	Grade No. 5 (including Navy special and P.S. 300).....	..do.....	xxx	46,962	118,290	xxx	758	53,572	117,630	52,814
2911400	Grade No. 6 (including Bunker C and P.S. 400).....	..do.....	xxx	264,252	592,192	xxx	12,171	303,997	577,854	291,826
	Diesel-type full oil (heavy).....	..do.....	xxx	8,820	24,345	xxx	322	6,971	18,011	6,649
	All other distillate fuel oils (including light gas-enrichment oil).....	..do.....	xxx	30,568	81,361	xxx	1,139	34,358	74,288	33,219
	Residual fuel oil, not specified by kind.....	..do.....	xxx	310	1,040	xxx	xxx	xxx	xxx	xxx
29115— 2911511 2911531	Petroleum waxes, total.....	Thousand lbs..	121,420	1,730,547	114,981	1,609,127	72,356	1,562,310	101,221	1,489,954
2911551	Microcrystalline wax ⁵.....	..do.....	xxx	290,087	27,500	xxx	16,854	196,193	17,579	179,339
2911500	Refined and semi-refined crystalline wax.....	..do.....	xxx	1,213,980	75,758	xxx	30,466	1,072,879	70,725	1,042,413
	Crude-scale crystalline wax.....	..do.....	xxx	212,906	10,226	xxx	25,036	293,238	12,917	268,202
	Petroleum waxes, not specified by kind.....	..do.....	xxx	13,574	1,497	xxx	xxx	xxx	xxx	xxx
29116— 2911611	Liquefied petroleum gases, total ⁶ ..	Thousand bbls.	22,596	107,073	560,029	84,477	22,266	65,314	394,826	43,048
2911631	For direct internal-combustion engine use (not included in gasoline above).....	..do.....	xxx	5,684	10,524	xxx	xxx	977	2,337	xxx
2911651	Chemical raw material (including synthetic rubber components):									
2911655	Aromatics.....	..do.....	xxx	8,105	64,759	xxx	xxx	9,872	105,068	xxx
2911698	Aliphatics:									
	Ethylene and its derivatives.....	Thousand bbls.	xxx	3,783	41,960	xxx	xxx	4,080	55,402	xxx
	Other aliphatics.....	..do.....	xxx	26,832	273,219	xxx	xxx	20,016	151,842	xxx
	Other liquefied gases.....	..do.....	xxx	62,669	169,567	xxx	xxx	30,369	80,177	xxx
29117— 2911711	Asphalt, total.....		xxx	xxx	285,330	xxx	xxx	xxx	221,681	xxx
2911751	Asphalt of 200 penetration and over ⁷	Thousand bbls.	xxx	37,586	119,487	xxx	664	34,072	101,706	33,408
2911799	Asphalt of less than 200 penetration ⁸	Thousand tons.	xxx	8,645	162,076	xxx	18	8,416	119,975	8,398
	Asphalt, not specified by kind..	..do.....	xxx	xxx	3,767	xxx				
29118— 2911811	Unfinished oils, and lubricating oil base stock, total ⁹	Thousand bbls.	105,909	94,035	441,098	-11,874	83,934	65,788	294,875	-18,146
2911851	Unfinished oils (including cracking stock and unfinished gasoline stocks).....	..do.....	94,827	71,779	276,915	-23,048	71,343	44,165	145,524	-27,178
	Lubricating-oil petroleum base stocks (for blending, compounding and grease manufacture) total ¹⁰.....	..do.....	11,082	22,256	164,183	11,174	12,591	21,623	149,351	9,032
	Made in petroleum refinery industry.....	..do.....	11,082	21,905	159,854	11,174	8,122	20,653	139,727	12,531
	Made in lubricants, n.e.c. industry.....	..do.....		351	4,329		4,469	970	9,624	-3,499

See footnotes at end of table.

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Table 3.—QUANTITY AND VALUE OF PETROLEUM REFINING, AND LUBRICANTS, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	1958				1954			
			Receipts ¹ (quantity)	Total shipments including interplant transfers		Net shipments ² (quantity)	Receipts ¹ (quantity)	Total shipments including interplant transfers		Net shipments ² (quantity)
				Quantity	Value (excluding tax) (\$1,000)			Quantity	Value (excluding tax) (\$1,000)	
29119—	Petroleum products—Continued									
	Other finished petroleum products, total.....		xxx	xxx	297,312	xxx	xxx	xxx	219,613	xxx
2911911	Petrolatum.....	Thousand lbs..	182,974	540,132	21,553	357,158	*128,936	501,465	17,368	*372,529
2911921	Petroleum coke.....	Thousand tons.	xxx	3,514	39,735	xxx	...	2,495	19,149	2,495
2911931	Road ore ¹¹	Thousand bbls.	xxx	16,939	29,166	xxx	46	12,562	29,743	12,516
2911941	Still gas.....	Million cu.ft.	xxx	59,906	16,101	xxx	...	27,986	7,438	27,986
2911951	Naphtha solvents ¹²	Thousand bbls.	xxx	20,866	135,651	xxx	1,426	18,511	107,886	17,085
2911998	Other finished petroleum products,		xxx	xxx	55,106	xxx	xxx	xxx	38,029	xxx
2911000	Products of petroleum refining, not specified by kind.....		xxx	xxx	9,842	xxx	xxx	xxx	xxx	xxx
29921—	Lubricants and similar oils, total ¹³	Thousand bbls.	xxx	xxx	772,538	xxx	(NA)	52,324	697,013	(NA)
2992111	Containing petroleum oils.....	..do.....	xxx	xxx	748,341	xxx	5,033	51,788	681,535	46,755
	Made in petroleum refineries....	..do.....	2,724	43,671	583,361	40,947	1,417	44,482	544,151	43,065
	Made in lubricants, n.e.c. industry.....	..do.....	2,075	7,359	149,972	5,284	3,197	6,798	126,840	3,601
	Made in other manufacturing industries.....	..do.....	xxx	551	15,008	xxx	419	508	10,544	89
2992151	Containing animal and vegetable oils only.....	..do.....	xxx	xxx	17,241	xxx	(NA)	536	15,478	(NA)
	Made in petroleum refineries....	..do.....	...	(14)	(14)	xxx	...	243	1,900	243
	Made in lubricants, n.e.c. industry.....	..do.....	115	281	15,462	166	113	275	13,034	162
	Made in other manufacturing industries.....	..do.....	xxx	1450	141,779	xxx	(NA)	18	544	(NA)
2992100	Lubricants and similar oils, not specified by kind.....	..do.....	xxx	xxx	6,956	xxx	xxx	(15)	(15)	xxx
29922—	Lubricating greases, total ¹⁶	Thousand lbs..	xxx	xxx	101,365	xxx	(NA)	1,101,082	100,304	(NA)
2992211	Containing petroleum oils.....	..do.....	xxx	925,527	95,410	xxx	110,315	1,084,309	98,645	973,994
	Made in petroleum refineries....	..do.....	10,469	600,532	54,270	590,063	23,940	607,242	52,966	583,302
	Made in lubricants, n.e.c. industry.....	..do.....	xxx	324,995	41,140	xxx	82,977	465,057	44,278	382,080
	Made in other manufacturing industries.....	..do.....	xxx	xxx	3,501	xxx	3,398	12,010	1,401	8,612
2992251	Containing animal and vegetable oils only.....	..do.....	xxx	xxx	3,501	xxx	(NA)	16,773	1,659	(NA)
	Made in lubricants, n.e.c. industry.....	..do.....	xxx	24,809	3,501	xxx	(NA)	11,437	1,208	(NA)
	Made in other manufacturing industries.....	..do.....	xxx	xxx	2,454	xxx	(NA)	5,336	451	(NA)
2992200	Lubricating greases, not specified by kind.....	..do.....	xxx	xxx	2,454	xxx	xxx	(17)	(17)	xxx
2992000	Lubricants, n.e.c., not specified by kind.....	..do.....	xxx	xxx	6,689	xxx	xxx	(15)	(15)	xxx

*Revised

NA Not available.

xxx Not applicable.

¹Reporting companies were requested to classify items in the same manner as billed by the shipper regardless of how the refinery (or blending and compounding establishments) would otherwise classify them.²Represents the difference between "Total shipments" (Quantity) and "Receipts" (Quantity).³Includes all finished gasolines (other than aviation and automotive gasoline), finished base stocks, and blending agents such as alkylate, polymers (dimer, codimer, etc.), hydrocarbons (hydrodimer, hydrocodimer, etc.), cumene, isopetane, isohexane, neohexane, isooctane, motor benzol (benzene), and other blending agents derived from petroleum (excludes natural gasoline).⁴Includes range oils, singal oil, mineral seal oil, mineral colza oil, longtime burning oil, 300⁰ oil, and insecticide base.⁵Represents amorphous paraffin of melting point not under 145⁰.⁶Includes ethane, propane, propene, butane, butene, propane-butane mixtures, propadiene, pentane, butadiene, and other liquefied hydrocarbon gases. Receipts and shipments exclude liquefied petroleum gases from natural gasoline plants.⁷Includes flux for paving, roofing, waterproofing, mastic, and other purposes; cut-back asphalt, emulsified asphalt and fluxes made in petroleum refineries, and other liquid asphaltic products except road oil and fuel oil used for heating purposes.⁸Includes asphalt for paving, roofing, waterproofing, briquetting, mastic, pipe coating, molding composition, and other heavy asphalt products.⁹Includes such products as cracking stock, unfinished gasoline, requiring further distillation, naphtha stocks, soaps, wax distillate, and other unfinished petroleum oils. Excludes lubricating oil base stocks, natural gasoline and cycle condensates. Although respondents were requested to report receipt in the same manner as billed by the shipper, the figures indicate that items billed as other oils by the shipper were sometimes reported as receipts of "unfinished oils" or "lubricating oil base stock" for the refinery receiving these oils.¹⁰Includes light, medium, neutral, heavy neutral, and residual stocks.¹¹Represents residual asphaltic oil used for surface treatment of road and highways.¹²Includes petroleum ether, rubber solvent, mineral spirits (petroleum spirits), varnish makers' and painters' naphtha, high-solvency naphtha, benzol diluent, lacquer diluent, cleaners' naphtha, stoddard solvent, extraction solvents, and other petroleum distillates shipped as solvents.¹³Includes oils for lubricating purposes and such nonlubrication purposes as transformer oil, hydraulic oil, processing oil, quenching oil, and liquid rust preventative.¹⁴Lubricants and similar oils containing animal and vegetable oils made in petroleum refineries are included in lubricants and similar oils containing animal and vegetable oils made in other manufacturing industries.¹⁵Included in lubricants and similar oils containing petroleum oils, product code 2992111.¹⁶Includes greases for aviation, automotive, industrial, and railroad uses; launching grease, and cutting, drawing, and grinding compounds and paste. Also includes paste rust-preventative compounds and thread compounds. See also footnote 13.¹⁷Included in lubricating greases containing petroleum oils, product code 2992211.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-30A-1

RUBBER FOOTWEAR

(Industry Code 3021--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Rubber Footwear Industry shipped products valued at \$229.4 million, an increase of 34 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 11 percent from 1954 to 1958 to a total of 20.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$149.6 million in 1958, an increase of 40 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE RUBBER FOOTWEAR INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3021)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	20.4	18.3	+11
Payroll.....	Million dollars...	85.6	64.0	+34
Production workers:				
Number.....	Thousands.....	17.6	15.8	+11
Man-hours.....	Millions.....	34.1	30.3	+13
Wages.....	Million dollars...	68.6	51.3	+34
Value added by manufacture, unadjusted ².....	..do.....	146.7	107.0	+37
Value added by manufacture, adjusted ³.....	..do.....	149.6	106.8	+40
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	81.7	63.7	+28
Value of shipments ⁵.....	..do.....	229.4	171.5	+34
Capital expenditures, new.....	..do.....	3.1	4.2	-26
Number of establishments with 20 or more employees ⁶	Number.....	26	21	+24

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Rubber Footwear Industry includes establishments engaged primarily in the manufacture of all rubber footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber soles vulcanized to the uppers. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Rubber Footwear Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Rubber Footwear Industry amounted to \$229.4 million. Of this total, \$192.9 million were products primary to the industry, \$25.5 million were products primary to other industries, and \$11.0 million were resales and receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$213.6 million of rubber footwear were shipped by all producers of these products. Of this total, \$192.9 million, or 90 percent, were shipped by plants classified in Industry 3021, Rubber Footwear while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE RUBBER FOOTWEAR INDUSTRY (S.I.C. Code 3021), BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Text)

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	20,352	85,599	17,596	34,120	68,562	146,661	149,574	229,389	3,109	26	18,322	107,027
Northeast.....	15,174	66,708	12,992	25,332	53,636	117,859	119,383	176,703	2,291	18	13,938	85,539
All other regions.....	5,178	18,891	4,604	8,788	14,926	28,802	30,191	52,686	818	8	4,384	21,488

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF RUBBER FOOTWEAR SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Rubber Footwear Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity (1,000 pairs)	Value (\$1,000)		Quantity (1,000 pairs)	Value (\$1,000)
3021---	Rubber footwear, total.....	xxx	xxx	213,634	xxx	xxx	163,730
	Canvas:						
3021011	Bals.....	20,392	19,855	42,821	15,406	14,969	31,148
3021013	Oxfords.....	40,717	39,999	72,114	25,451	25,758	48,352
3021015	Specialty shoes.....	10,300	10,147	20,339	10,250	10,217	19,720
	Waterproof:						
3021021	Boots.....	3,014	3,009	14,347	2,060	2,152	11,219
3021031	Lumberman and pacs.....	1,691	1,672	10,277	1,670	1,702	9,411
	Arctics and gaiters:						
3021041	Buckle and automatic, except style.....	6,500	6,914	24,004	4,821	5,370	16,003
3021045	Style, rubber and cloth.....	6,011	6,503	15,124	6,919	7,253	16,540
3021051	Light and heavy rubbers.....	8,221	8,371	12,998	7,664	8,340	11,337
3021098	Other rubber footwear.....	374	373	1,610	...	...	...

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-30A-2

TIRES AND INNER TUBES INDUSTRY

(Industry Code 3011—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Tires and Inner Tubes Industry shipped products valued at \$2,520 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 6 percent from 1954 to 1958 to a total of 87.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$1,155 million in 1958, an increase of 32 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE TIRES AND INNER TUBES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3011)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	87.2	92.7	-6
Payroll.....	Million dollars....	510.6	441.6	+16
Production workers:				
Number.....	Thousands.....	68.3	74.0	-8
Man-hours.....	Millions.....	129.9	138.0	-6
Wages.....	Million dollars....	381.8	334.1	+14
Value added by manufacture, unadjusted ².....	..do.....	1,114.0	844.5	+32
Value added by manufacture, adjusted ³.....	..do.....	1,155.3	877.8	+32
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	1,353.2	1,115.8	+21
Value of shipments ⁵.....	..do.....	2,519.9	1,997.4	+26
Capital expenditures, new.....	..do.....	70.6	67.4	+5
Number of establishments with 20 or more employees ⁶	Number.....	55	46	+20

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 31

GROUP 32

The Tires and Inner Tubes Industry includes establishments engaged primarily in the manufacture of pneumatic casings, inner tubes, and solid and cushion tires (including seconds) for all types of vehicles, including off the road vehicles such as road building machinery, logging equipment, etc. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Tires and Inner Tubes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Tires and Inner Tubes Industry amounted to \$2,520 million. Of this total, \$1,956 million were products primary to the industry, \$307 million were products primary to other industries and \$257 million were resales and receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,964 million of tires and inner tubes were shipped by all producers of these products. Of this total, \$1,956 million, or 99.6 percent, were shipped by plants classified in Industry 3011, Tires and Inner Tubes while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.—GENERAL STATISTICS FOR THE TIRES AND INNER TUBES INDUSTRY (S.I.C. CODE 3011), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees ²	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	87,249	510,610	68,270	129,889	381,813	1,113,994	1,155,301	2,519,925	70,605	55	92,748	844,545
Northeast.....	11,753	70,510	9,210	18,830	53,005	164,570	175,572	373,529	7,866	11	11,604	136,260
Pennsylvania.....	5,175	29,284	4,384	8,589	23,876	88,392	90,285	179,787	2,999	6	5,412	72,117
North Central.....	51,293	301,033	39,478	72,257	219,551	576,761	602,131	1,383,277	45,608	23	56,613	419,749
Ohio.....	35,480	204,147	26,946	47,713	145,220	353,673	381,482	901,032	30,649	14	39,203	249,197
South.....	14,394	82,005	12,084	24,221	66,938	251,986	251,356	509,471	12,135	15	14,373	190,679
West.....	9,809	57,062	7,498	14,581	42,319	120,677	126,242	253,648	4,996	6	10,157	97,857

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF TIRES AND INNER TUBES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Tires and Inner Tubes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Unit of quantity	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3011--	Tires and Inner Tubes, Total.....		xxx	xxx	1,964,362	xxx	xxx	1,621,917
	Pneumatic tires (casings).....	Thousand tires...						
3011011	Passenger car and motorcycle.....	...do.....	84,675	84,188	1,076,828	77,291	76,779	854,244
3011013	Truck and bus (including off-the-road)...	...do.....	12,999	13,084	601,952	12,476	12,552	520,169
3011014	Airplane.....	...do.....	477	463	43,715	383	369	23,557
3011015	Tractor and implement (farm, garden and industrial).....	...do.....	3,636	3,474	94,969	3,050	2,990	68,431
3011016	Industrial.....	...do.....	1,782	1,838	12,994	1,140	1,147	5,878
3011017	Bicycle casings and single tube tires...	...do.....	8,243	8,152	9,352	7,206	7,311	7,790
	Inner tubes:							
3011021	Passenger car and motorcycle.....	Thousand tubes...	33,737	33,027	48,575	50,775	52,154	74,205
3011023	Truck and bus (including off-the-road)...	...do.....	8,572	8,813	32,780	8,969	9,208	31,328
3011024	Airplane.....	...do.....	278	276	2,705	263	257	2,125
3011025	Tractor and implement (farm, garden and industrial).....	...do.....	2,721	2,694	8,916	2,413	2,589	7,279
3011026	Industrial.....	...do.....	1,991	1,888	2,077	1,312	1,325	1,295
3011027	Bicycle.....	...do.....	8,746	8,451	5,132	7,210	7,505	4,129
	Solid tires:							
3011031	Pressed on industrial and highway.....	Thousand tires...	329	306	6,612	306	314	5,255
3011033	Cured on industrial (2.00" or larger which are cured on a wheel).....	...do.....	354	345	1,584	665	671	1,801
3011035	Bogie, idler and support rollers.....	Thousand units...	270	222	1,789	288	286	4,986
	Other solid and semipneumatic:							
3011041	2.00" or larger, except hand lawn mowers, baby carriage, tricycle, juvenile, etc.....	Thousand tires...	7,082	7,027	4,021	32,618	31,326	9,445
3011051	Less than 2.00", including hand lawn mower, baby carriage, tricycle, juvenile, etc.....	...do.....	37,709	37,301	10,361			

xxx Not applicable.

DEPARTMENT OF COMMERCE
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WASHINGTON 25, D. C.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-30A-3

RECLAIMED RUBBER INDUSTRY

(Industry Code 3031--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Reclaimed Rubber Industry amounted to \$21 million, a decrease of 11 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as

materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. Average employment in this industry showed a decrease of 27 percent from 1954 to 1958 to a total of 2.2 thousand employees in 1958. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE RECLAIMED RUBBER INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3031)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.2	3.0	-27
Payroll.....	Million dollars...	11.7	12.7	-8
Production workers:				
Number.....	Thousands.....	1.8	2.5	-28
Man-hours.....	Millions.....	3.3	4.6	-28
Wages.....	Million dollars...	9.1	9.7	-6
Value added by manufacture, unadjusted ².....	..do.....	20.7	22.0	-6
Value added by manufacture, adjusted ³.....	..do.....	20.9	23.5	-11
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	18.5	40.1	-54
Value of shipments ⁵.....	..do.....	39.3	63.6	-38
Capital expenditures, new.....	..do.....	1.0	2.8	-64
Number of establishments with 20 or more employees ⁶	Number.....	14	18	-22

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing or assembly. In 1958 cost of these resales amounted to less than \$1 million compared to \$23 million in 1954.

⁵Includes resale of products amounting to approximately \$1 million in 1958 compared with \$25 million in 1954. For further explanation see text under, "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 31

GROUP 32

The Reclaimed Rubber Industry includes establishments engaged primarily in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber by manufacturing processes which result in a product that is sold for mixing with crude rubber and synthetic rubber as an extender. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Reclaimed Rubber Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in Reclaimed Rubber Industry amounted to \$39 million. Of this total, \$35 million were products primary to the industry, \$2 million were products primary to other industries, and \$2 million were receipts for miscellaneous activities and resale of products. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of

establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$48 million of reclaimed rubber and crumb or ground rubber were shipped by all producers of these products. Of this total, \$35 million, or 74 percent, were shipped by plants classified in Industry 3031, Reclaimed Rubber, while the remainder was shipped of plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE RECLAIMED RUBBER INDUSTRY (S.I.C. CODE 3031), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em-ployees, number	Value added by manufac-ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unad-justed ² (\$1,000)	Ad-justed ³ (\$1,000)					
United States, total.....	2,214	11,658	1,791	3,326	9,069	20,683	20,914	39,260	969	14	2,953	22,043
Middle Atlantic.....	429	2,483	358	716	1,934	4,001	4,025	7,055	195	4	983	6,367
All other divisions....	1,785	9,175	1,433	2,610	7,135	16,682	16,889	32,205	774	10	1,970	15,676

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF RECLAIMED RUBBER SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Reclaimed Rubber Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity (1,000 lb.)	Value (\$1,000)		Quantity (1,000 lb.)	Value (\$1,000)
3031--	Reclaimed rubber, total.....	xxx	xxx	47,646	xxx	xxx	44,542
3031011	Reclaimed rubber ¹	582,568	496,930	47,123	569,058	501,013	43,734
3031051	Crumb or ground rubber ²	14,197	10,030	523	13,555	7,935	808

xxx Not applicable.

¹Any vulcanizable material, except reclaimed residue or "mud" derived from processing or treatment of material or synthetic (chemical) vulcanized scrap rubber.

²Grindings of scrap not devulcanized by the pan or digester process.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-30A-4

RUBBER PRODUCTS, N.E.C., INDUSTRY

(Industry Code 3099--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Rubber Products, Not Elsewhere Classified, Industry shipped products valued at \$1,954 million, an increase of 10 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 122,3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$1,027 million in 1958, an increase of 8 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE RUBBER PRODUCTS, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3099)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	122.3	132.5	-8
Payroll.....	Million dollars...	606.2	541.0	+12
Production workers:				
Number.....	Thousands.....	91.4	104.0	-12
Man-hours.....	Millions.....	182.1	204.5	-11
Wages.....	Million dollars...	404.2	380.4	+6
Value added by manufacture, unadjusted ².....	..do.....	1,012.2	930.1	+9
Value added by manufacture, adjusted ³.....	..do.....	1,026.5	946.4	+8
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	922.1	830.3	+11
Value of shipments ⁵.....	..do.....	1,954.3	1,777.3	+10
Capital expenditures, new.....	..do.....	55.3	54.0	+2
Number of establishments with 20 or more employees ⁶	Number.....	591	568	+4

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

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The Rubber Products, N.E.C., Industry includes establishments engaged primarily in the manufacture of industrial and mechanical rubber goods, rubberized fabrics, vulcanized rubber clothing, rubber heels and soles, rubber druggist and medical sundries, and miscellaneous rubber specialties. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Rubber Products, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Rubber Products, N.E.C., Industry amounted to \$1,954 million. Of this total, \$1,576 million were products primary to the industry, \$249 million were products primary to other industries, and \$129 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,943 million of rubber products, n.e.c., were shipped by all producers of these products. Of this total, \$1,576 million, or 81 percent, were shipped by plants classified in Industry 3099, Rubber Products, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE RUBBER PRODUCTS, N.E.C., INDUSTRY (S.I.C. CODE 3099), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	122,260	606,182	91,356	182,145	404,196	1,012,206	1,026,458	1,954,330	55,323	591	132,503	930,086
New England.....	24,020	115,350	18,018	36,180	75,195	202,798	203,179	394,381	18,870	102	27,311	192,073
New Hampshire.....	597	2,610	469	1,006	1,779	5,162	5,206	8,182	4,054	3	506	3,465
Massachusetts.....	14,173	67,626	10,548	21,171	43,344	120,445	121,385	246,244	13,674	56	14,890	108,885
Middle Atlantic.....	23,819	118,124	17,119	33,820	76,656	193,982	194,681	347,336	6,120	109	27,735	190,808
New York.....	5,739	27,499	3,958	7,769	16,771	43,373	42,930	79,604	1,392	23	6,959	49,416
North Central.....	51,928	269,344	38,747	76,386	180,005	404,128	409,209	791,562	17,213	223	57,223	405,757
Ohio.....	29,583	153,663	21,626	41,379	100,721	219,945	225,257	448,548	9,087	105	30,432	214,315
Missouri.....	1,141	4,386	896	1,708	3,066	8,559	8,786	20,415	157	9	805	5,771
South.....	11,767	47,388	9,638	19,653	35,445	91,099	94,748	204,180	5,943	78	8,878	57,808
Maryland.....	2,099	7,915	1,777	3,703	5,869	13,907	14,148	25,250	211	10	1,893	9,064
Virginia.....	1,834	6,590	1,393	2,918	4,811	10,980	11,075	22,022	1,849	6	1,091	7,388
North Carolina.....	1,566	6,507	1,269	2,466	4,905	15,114	16,316	33,272	1,200	8	1,178	9,572
Florida.....	160	441	142	262	343	584	573	2,118	80	3	281	950
Tennessee.....	954	4,224	716	1,342	2,720	6,499	7,909	22,658	917	8	707	6,011
Texas.....	1,835	7,914	1,577	3,368	6,410	14,211	14,741	34,408	545	14	961	6,148
West.....	10,726	55,976	7,834	16,106	36,895	120,199	124,641	216,871	7,177	79	11,355	83,637
California.....	6,794	35,108	5,105	10,648	22,444	66,155	68,692	132,114	4,367	69	6,421	45,914

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF RUBBER PRODUCTS, N.E.C. SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Rubber Industries, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3099----	Rubber industries, n.e.c., total.....	.....	xxx	xxx	1,943,341	xxx	xxx	1,748,422
30991--	Tread rubber and tire sundries.....	.....	xxx	xxx	179,787	xxx	xxx	107,995
3099111	Tread rubber (camelback).....	Thousand pounds...	489,993	487,211	138,442	315,378	310,951	83,514
3099131	Tire flaps.....	Thousand units...	11,145	10,873	8,116	xxx	xxx	(1)
3099151	Other tire sundries and repair materials.....	Thousand pounds...	xxx	xxx	29,028	xxx	xxx	24,481
3099100	Tread rubber and tire sundries not specified by kind.....	.....	xxx	xxx	4,201	xxx	xxx	...
30992--	Rubber heels and soles.....	.....	xxx	xxx	134,504	xxx	xxx	113,088
3099211	Shoe products rubber, elastomer resin:	.....	.....	.....	.....	.....	.....	.....
3099221	Heels.....	Thousand pairs...	275,060	277,586	41,118	253,375	253,134	31,907
3099231	Soles.....	.....do.....	133,930	129,306	45,414	145,607	145,454	48,242
3099251	Soling slabs and toplift sheets.....	Thousand sq. ft...	148,190	143,671	47,972	115,313	115,568	32,939
30994--	Druggist and medical sundries.....	.....	xxx	xxx	54,315	xxx	xxx	46,776
3099411	Rubber druggist and medical sundries including household gloves:	.....	.....	.....	.....	.....	.....	.....
3099431	Water bottles, fountain syringes, and combinations.....	Gross.....	30,145	30,464	5,352	47,908	46,186	7,042
3099451	Nipples and pacifiers.....	.....do.....	763,209	696,923	4,635	652,191	667,838	3,702
3099461	Gloves (including rubberized):	.....	.....	.....	.....	.....	.....	.....
3099471	Household.....	Dozen pairs.....	924,471	941,486	4,726	1,173,075	1,123,553	5,721
3099481	Surgical.....	.....do.....	2,404,983	2,299,824	7,780	1,641,261	1,551,610	5,365
3099491	Other (including ice bags and caps, prophylactics, and medical-surgical tubing).....	.....	xxx	xxx	30,187	xxx	xxx	24,946
3099400	Rubber druggist and medical sundries, not specified by kind.....	xxx	xxx	1,635	xxx	xxx	...

See footnotes at end of table.

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Table 3.—VALUE OF RUBBER PRODUCTS, N.E.C. SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
30995--	Rubber industries, n.e.c.—Continued							
	Other rubber products, n.e.c.....		xxx	xxx	394,744	xxx	xxx	373,259
	Rubber coated fabrics:							
3099511	Automotive decking.....	Thousand sq. yds..	906	911	1,041	4,130	4,179	3,372
3099514	Garment fabrics.....	do.....	13,801	13,781	6,506	12,702	13,781	4,933
3099515	Hospital and crib sheeting.....	do.....	xxx	xxx	2,233	5,256	5,237	3,335
3099516	Shoe and slipper fabrics.....	do.....	xxx	xxx	9,691	19,107	19,229	12,568
3099517	Other coated fabrics (including automotive and furniture upholstery).....	do.....	xxx	xxx	19,305	38,391	38,415	23,240
3099531	Factory rebuilt or retreaded tires.....	do.....	xxx	xxx	(2)	xxx	xxx	30,159
	Rubber clothing: ³							
3099541	Industrial rubber gloves.....	Dozen pairs.....	(NA)	(NA)	11,119	757,565	754,107	8,295
3099553	Baby pants.....	Dozen.....	(4)	(4)	(4)	826,576	794,370	3,992
3099555	Bathing and shower caps.....	Gross.....	69,302	66,996	5,360	75,963	74,811	4,387
3099558	Other rubber clothing (rainwear, aprons, dress shields, etc.) ⁵	do.....	xxx	xxx	2,930	xxx	xxx	(4)
3099561	Thread, bare.....	Thousand pounds...	15,139	15,415	22,267	12,810	11,468	18,101
	Cement for sale, as such:							
3099564	Latex type.....	Thousand gallons..	(NA)	(NA)	28,511	39,990	39,984	54,542
3099565	Solvent type.....	do.....	(NA)	(NA)	44,919			
	Ballons:							
3099568	Toy and advertising.....	Gross.....	(NA)	(NA)	11,584	6,509,686 (1)	6,566,777 (1)	9,076 (1)
3099569	Meteorological.....	do.....						
	Stationers sundries:							
3099573	Bands.....	Thousand pounds...	(NA)	(NA)	7,039	5,950	5,834	5,517
3099574	Other (including finger cots, erasers but excluding pencil plugs) ⁶	do.....	(NA)	(NA)	4,284	3,983	3,964	3,427
3099579	Balls, except bowling, golf, footballs and other inflatable athletic balls.....	do.....	xxx	xxx	5,629	xxx	xxx	5,724
3099581	Toys, except balloons, balls, and dolls.....	do.....	xxx	xxx	6,004	xxx	xxx	13,166
3099591	Compounds or mixtures for sale or interplant transfer.....	do.....	xxx	xxx	77,094	xxx	xxx	(1)
3099595	Other rubber goods, including rubber brushes, combs, mouthpieces, etc.....	do.....	xxx	xxx	4108,465	xxx	xxx	4169,425
3099500	Other rubber products, n.e.c. not specified by type.....	do.....	xxx	xxx	20,763	xxx	xxx	...
30996--	Sponge rubber products.....	do.....	xxx	xxx	201,479	xxx	xxx	178,924
	Latex foam:							
3099611	Automobile seating.....	Thousand pounds...	36,610	37,528	29,618	51,049	51,747	40,248
3099621	Upholstery:							
	Fully molded cushions.....	do.....	54,703	58,274	47,103	34,810	35,024	30,523
3099623	Slab stock.....	do.....	19,789	20,316	12,309	18,452	18,488	15,804
	Mattress cores:							
3099631	Pounds.....	Thousand pounds...	23,938	...	...	(NA)	...	...
3099635	Units.....	Thousand units...	737	768	19,839	857	835	19,009
	Pillows:							
3099641	Pounds.....	Thousand pounds...	12,310	...	...	(NA)	...	...
3099645	Units.....	Thousand units...	7,987	7,762	15,616	xxx	7,882	19,356
3099661	Other latex foam products, including hospital padding and topper pads.....	Thousand pounds...	35,259	36,678	29,991	*33,043	*33,425	23,754
3099671	Chemically blown sponge.....	do.....	119,009	120,192	39,505	66,795	66,383	30,230
3099600	Sponge rubber products not specified by kind.....	do.....	xxx	xxx	7,498	xxx	xxx	...
30997--	Rubber belts and belting.....	do.....	xxx	xxx	137,930	xxx	xxx	126,932
3099711	Conveyor and elevator.....	Thousand pounds...	52,373	52,199	52,403	48,256	48,039	40,631
	Transmission:							
3099713	Flat.....	do.....	8,834	8,824	11,228	10,631	10,516	14,593
	V-belt:							
	Motor vehicles:							
3099721	Pounds.....	Thousand pounds...	(NA)	(NA)	21,902	13,644	13,378	18,292
3099725	Units.....	Thousand units...	(NA)	...	...	29,341	...	...
3099731	Industrial, except fractional.....	Thousand pounds...	11,103	11,162	22,651	36,597	35,803	48,131
3099741	Agricultural, except fractional.....	do.....	3,217	2,932	4,794			
3099751	Fractional horsepower.....	do.....	8,420	8,080	16,125			
3099798	Other.....	do.....	(NA)	(NA)	8,450	5,591	5,687	5,285
3099700	Rubber belts and belting not specified by kind.....	do.....	xxx	xxx	377	xxx	xxx	...

See footnotes at end of table.

Table 3.—VALUE OF RUBBER PRODUCTS, N.E.C. SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	1958			1954		
			Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
30998--	Rubber industries, n.e.c.—Continued							
	Rubber hose and tubing.....		xxx	xxx	180,601	xxx	xxx	148,509
	Hose:							
	Railroad specification:							
3099811	Airbrake and air signal.....	Thousand pounds...	1,785	1,991	1,712	1,546	1,528	1,292
3099819	Other.....	do.....	607	653	596	*2,577	*2,573	*946
	Molded:							
3099821	Garden.....	do.....	20,890	19,786	7,581	21,292	21,918	9,212
3099825	Horizontal wire braided.....	do.....	17,585	18,052	23,420	14,447	14,184	14,562
3099827	Radiator.....	do.....	45,833	44,481	23,019	*75,614	*76,487	*42,590
3099829	Other.....	do.....	(NA)	(NA)	33,686			
	Wrapped:							
3099831	Handbuilt.....	do.....	13,781	13,662	15,043	16,975	16,954	15,908
3099839	Other.....	do.....	(NA)	(NA)	17,142	27,324	27,505	23,241
	Cotton, rubber-lined:							
3099841	Fire specification.....	do.....	6,218	6,393	6,751	4,004	4,074	3,880
3099845	Fire-commercial.....	do.....	(NA)	(NA)	5,305	4,417	4,483	4,866
3099849	Other.....	do.....	(NA)	(NA)	3,131	5,355	5,141	5,399
3099861	Gasoline.....	do.....	12,027	12,319	11,687	7,120	7,150	6,848
3099871	Other rubber hose.....	do.....	(NA)	(NA)	23,009	(NA)	(NA)	10,138
3099881	Tubing, except medical and surgical and reinforced.....	do.....	12,519	12,452	6,987	19,520	19,554	9,627
3099800	Rubber hose and tubing not specified by kind.....		xxx	xxx	1,532	xxx	xxx	...
30999--	Other rubber mechanical goods.....		xxx	xxx	635,514	xxx	xxx	648,720
	Hard rubber mechanical goods:							
	Battery jars, boxes, and parts:							
3099911	Jars and boxes.....	Thousand pounds...	19,775	20,803	21,940	xxx	xxx	23,653
3099915	Parts.....	do.....	xxx	xxx	21,485			
3099918	Other.....	do.....	xxx	xxx	11,755			
	Rubber floor and wall covering:							
	Mats, matting, and stair treads:							
3099921	Rolls.....	Thousand sq. yds..	(NA)	(NA)	7,918	10,589	10,668	16,291
	Individual mats:							
3099923	Automotive.....	do.....	(NA)	(NA)	41,942	38,619	38,773	34,641
3099925	All other (including stair treads)....	do.....	(NA)	(NA)	13,497	8,007	8,013	11,870
	Other flooring:							
3099927	Sheet goods.....	do.....	(NA)	(NA)	5,671	1,499	1,511	2,091
3099928	Tile.....	do.....	(NA)	(NA)	20,001	11,935	11,670	22,319
3099929	Wall covering (including cove base, wainscoting, etc.).....	do.....	8,038	7,837	10,307	xxx	xxx	5,232
	Other rubber mechanical goods:							
	Molded (including wringer rolls but excluding sponge and hard rubber products):	Thousand pounds...	(NA)	(NA)	174,406	199,362	197,513	171,217
3099933	Extrusion and lathe cut (except tubing):							
3099935	Extrusions only.....	do.....	(NA)	(NA)	35,785	96,366	93,012	48,946
	Lathe cut.....	do.....	(NA)	(NA)	11,904			
3099937	Jar rings.....	Gross.....	(NA)	(NA)	2,098	(NA)	(NA)	2,738
3099941	O-rings.....	Thousand pounds...	(NA)	(NA)	24,798	5,433	5,392	11,852
3099945	Packing (for sealing moving parts)....	do.....	(NA)	(NA)	38,306	32,073	31,886	28,477
3099951	Pressure sensitive tape (including friction).....	do.....	(NA)	(NA)	20,285	25,801	25,953	18,174
3099961	Tiring.....	do.....	10,070	10,079	1,119	...	...	(⁷)
3099971	Rolls and platens, solid and covered rubber, (except wringer and printers rolls, ink rollers).....		xxx	xxx	16,903	xxx	xxx	12,557
3099981	Tank blocks, treads, and band tracks....		xxx	xxx	11,165	xxx	xxx	43,256
3099983	Fuel cells.....		xxx	xxx	42,499	xxx	xxx	67,854
3099985	Boats, pontoons, and life rafts.....		xxx	xxx	6,281	xxx	xxx	15,128
3099998	Other.....		xxx	xxx	83,611	xxx	xxx	791,207
3099900	Other rubber mechanical goods not specified by kind.....		xxx	xxx	11,838	xxx	xxx	...
3099000	Rubber products not specified by kind.....		xxx	xxx	24,467	xxx	xxx	4,219

*Revised. NA Not available. xxx Not applicable. ¹Not separately reported in 1954. ²Classified in Service Industry 7534, Tire Repair and Recapping Shops in 1958. ³Additional data are shown in Major Group 23. Apparel and other finished products. ⁴Code 3099553 for 1958 and Code 3099558 for 1954 included with Code 30999595, "Other Rubber Goods." ⁵For additional detail, see Industry 2385, Waterproof Outer Garments. ⁶For 1954, this item included only, "erasers, except pencil plugs." ⁷Code 3099961 for 1954 included with Code 3099998, "Other Rubber Mechanical Goods."

USCOMM--DC

GROUP 31

GROUP 32

1958 CENSUS OF MANUFACTURES
PUBLICATION PROGRAM

Following publication of preliminary reports, the results of
the 1958 Census of Manufactures will be issued as follows:

Final Industry Reports

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

Final Area Reports

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

Final Subject Reports

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound
volumes of the 1958 Census of Manufactures.

VOLUME I—SUMMARY STATISTICS

VOLUME II—INDUSTRY STATISTICS

VOLUME III—AREA STATISTICS

Bureau of the Census

WASHINGTON 25, D. C.

GROUP 31

GROUP 32

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC(P)-31A-1

INDUSTRIAL LEATHER BELTING INDUSTRY

(Industry Code 3121—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Industrial Leather Belting Industry shipped products valued at \$66 million, a decrease of 1 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 13 percent from 1954 to 1958 to a total of 4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$34.7 million in 1958, a slight decrease from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRIAL LEATHER BELTING INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3121)

Item	Unity of quantity	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	4.0	4.6	-13.0
Payroll.....	Million dollars...	18.7	18.6	+0.5
Production workers:				
Number.....	Thousands.....	2.7	3.3	-18.2
Man-hours.....	Millions.....	5.4	6.5	-16.9
Wages.....	Million dollars...	11.5	11.5	.0
Value added by manufacture, unadjusted ²	do.....	34.7	34.9	-0.6
Value added by manufacture, adjusted ³	do.....	36.2	36.4	-0.6
Cost of materials, fuel, electricity, and contract work ⁴	do.....	30.5	30.7	-0.7
Value of shipments ⁵	do.....	66.4	67.1	-1.0
Capital expenditures, new.....	do.....	1.2	2.0	-40.0
Number of establishments with 20 or more employees ⁶	Number.....	31	34	-8.8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Industrial Leather Belting Industry includes establishments engaged primarily in the manufacture of leather belting used for transmission of power and leather packing. Other products included in this industry are leather oil and grease retainers and other industrial leather products. Establishments primarily engaged in producing gaskets (regardless of material) and asbestos packings are included in Industry 3293, Gaskets and Asbestos Insulations; rubber belting and packing are included in Industry 3099, Rubber Industries, n.e.c., plastic belting and packing in Industry 3971, Plastics Products, n.e.c.; and metallic packing Industry 3599, Machine Shops.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Industrial Leather Belting Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Industrial Leather Belting Industry amounted to \$66 million. Of this total, \$60 million were products primary to the industry.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$60 million of industrial leather belting and packing were shipped by all producers of these products. Of this total, \$55 million, or 92 percent, were shipped by plants classified in industry 3121 Industrial Leather Belting while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE INDUSTRIAL LEATHER BELTING INDUSTRY BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Text)

(For explanation of column captions see text)

Regions and States ¹	1958 ⁵										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll	Number	Man-hours	Wages	Unadjusted ²	Adjusted ³					
		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)					
United States, Total.....	3,956	18,657	2,749	5,444	11,472	34,734	36,195	66,429	1,178	31	4,574	34,909
New England.....	569	2,307	423	823	1,560	3,599	4,731	8,025	80	6	651	4,562
Middle Atlantic.....	441	1,865	325	622	1,254	2,783	3,156	7,218	48	6	633	3,154
New York.....	82	345	60	138	212	491	516	1,216	3	2	360	1,285
East North Central.....	2,045	9,860	1,473	2,978	6,398	20,830	20,225	36,804	685	10	2,058	18,578
Michigan.....	503	2,994	356	705	1,849	4,748	4,579	9,261	138	4	737	6,292
West North Central.....	47	193	30	69	125	469	478	701	70	...	56	294
South.....	357	1,533	243	474	829	2,348	2,639	6,896	70	6	477	2,712
North Carolina.....	90	419	62	120	230	774	832	2,233	47	1	119	747
Pacific.....	497	2,899	255	478	1,306	4,705	4,966	6,785	225	3	699	5,609

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF INDUSTRIAL LEATHER BELTING SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Industrial Leather Belting Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3121--	Industrial leather products, total.....	59,956	64,868
31211--	Industrial leather belting, total.....	9,432	10,010
3121111	Flat.....	5,088	6,652
3121151	Other.....	2,799	1,469
3121100	Industrial leather belting, not specified by kind.....	1,545	1,889
31212--	Leather packings, oil and grease retainers, total.....	41,565	46,374
3121211	Leather packings.....	8,022	8,948
3121231	Leather oil and grease retainers (including seals).....	33,543	37,426
3121998	Other industrial products made wholly or partly of leather, including textile leathers..	8,959	8,484

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-31A-2

FOOTWEAR CUT STOCK INDUSTRY

(Industry Code 3131—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Footwear Cut Stock Industry shipped products valued at \$256 million, a decrease of 2 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 11 percent from 1954 to 1958 to a total of 17.9 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to 96 million in 1958, an increase of 11 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries of geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE FOOTWEAR CUT STOCK INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3131)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	17.9	20.1	-11
Payroll.....	Million dollars...	57.8	57.1	+1
Production workers:				
Number.....	Thousands.....	15.4	17.6	-12
Man-hours.....	Millions.....	28.9	32.5	-11
Wages.....	Million dollars...	44.0	44.2	...
Value added by manufacture, unadjusted ².....	...do.....	93.7	87.2	+8
Value added by manufacture, adjusted ³.....	...do.....	96.5	87.1	+11
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	159.5	170.8	-7
Value of shipments ⁵.....	...do.....	255.6	259.7	-2
Capital expenditures, new.....	...do.....	2.0	3.1	-36
Number of establishments with 20 or more employees ⁶	Number.....	233	261	-11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Footwear Cut Stock Industry includes establishments engaged primarily in the manufacture of leather soles, inner soles, and other shoe cut stock, and leather welting, shanks, heel and toe caps, leather shoe laces, finished wood heels, and other boot and shoe findings. Footwear cut stock and findings made of leatherboard are also included in this industry, but establishments primarily engaged in manufacturing heels, soling strip and soles made of rubber, composition and fiber, are classified in Industry 3099, Rubber Industries, N.E.C.; those made of plastics are classified in Industry 3971, Plastics Products, N.E.C. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Footwear Cut Stock Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Footwear Cut Stock Industry amounted to \$256 million. Of this total, \$226 million were products primary to the industry, \$12 million

were products primary to other industries, and \$18 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$237 million of footwear cut stock were shipped by all producers of these products. Of this total, \$226 million, or 95 percent, were shipped by plants classified in Industry 3131, Footwear Cut Stock, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U.S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.--GENERAL STATISTICS FOR THE FOOTWEAR CUT STOCK INDUSTRY (S.I.C. CODE 3131), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em-ployees, number	Value added by manufac-ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unad-justed ² (\$1,000)	Ad-justed ³ (\$1,000)					
United States, total.....	17,877	57,813	15,381	28,897	44,023	93,743	96,494	255,578	1,987	233	20,059	87,185
New England.....	9,541	31,422	7,979	14,863	22,774	52,823	53,405	132,741	1,273	128	11,687	50,183
Maine.....	831	2,669	694	1,320	1,832	3,865	3,879	8,274	119	12	1,176	4,270
New Hampshire.....	1,097	3,491	958	1,720	2,745	5,662	5,702	17,067	59	14	1,602	6,283
Massachusetts.....	7,205	23,950	6,068	11,305	17,418	41,600	42,098	104,236	1,027	97	8,590	38,126
Middle Atlantic.....	3,552	11,610	3,140	6,077	9,500	16,657	18,138	50,965	297	49	3,480	14,629
New York.....	2,497	8,218	2,197	4,204	6,663	11,439	12,455	33,019	231	35	2,488	11,028
North Central.....	3,754	11,596	3,323	6,142	9,041	19,414	19,957	55,463	292	41	3,889	17,579
Ohio.....	218	707	193	374	578	954	948	1,743	20	2	283	1,133
Illinois.....	238	814	209	390	640	1,308	1,199	3,137	27	5	270	1,275
Wisconsin.....	211	771	184	351	577	1,144	1,147	3,733	25	2	247	960
South.....	828	2,406	759	1,428	2,133	3,800	3,926	14,112	97	11	878	4,128
West.....	202	779	180	387	575	1,049	1,068	2,297	28	4	123	665

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF FOOTWEAR CUT STOCK SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Footwear Cut Stock Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product Code	Product	Unit of measure	1958				1954	
			Total shipments including inter-plant transfers		Transfers to other plants of the same company		Total shipments including inter-plant transfers	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3131--	Footwear cut stock and findings, total ¹.....	.....	xxx	237,341	xxx	48,412	xxx	242,852
31311--	Boot and shoe cut stock, total.....	.....	xxx	132,562	xxx	38,995	xxx	145,168
3131111	Outsoles.....	1,000 doz. pairs	9,430	44,797	3,098	17,287	10,812	51,726
3131111	Leather.....	.....do.....	9,430	44,797	3,098	17,287	10,812	51,726
3131115	Other, except rubber elastomer resin and plastic.....	.....do.....						
3131123	Midsoles.....	.....do.....	859	2,246	734	1,875	2,571	5,861
3131131	Innersoles:	.....do.....	5,188	15,296	2,099	7,615	9,128	24,419
3131135	Leather.....	.....do.....						
3131135	Other ¹.....	.....do.....	12,404	9,332	466	1,179	2,556	4,393
3131141	Heels:	.....do.....	4,383	6,657	662	887	4,777	5,594
3131145	Leather.....	.....do.....						
3131145	Other, except wood, rubber, elastomer resin and plastic.....	.....do.....	5,133	6,342	(D)	(D)	5,248	5,235
3131153	Heel lifts and tap lifts ¹.....	.....do.....	6,592	2,458	2,142	913	(NA)	5,274
3131161	Counters:	.....do.....	1,320	1,791	334	488	4,772	4,619
3131165	Leather.....	.....do.....						
3131165	Other ¹.....	.....do.....	21,432	9,727	3,652	1,102	16,345	7,866
3131171	Box toes.....	.....do.....	20,233	7,591	5,411	1,939	19,574	7,068
3131175	Taps.....	.....do.....	1,192	4,490	43	51	1,061	4,008
3131177	Uppers (vamps, quarters, tips, tongues, etc.).....	.....do.....	xxx	2,405	xxx	(D)	xxx	2,659
3131179	Other cut stock:	.....do.....	xxx	6,049	xxx	623	xxx	5,349
3131198	Leather.....	.....do.....						
3131198	Other ¹.....	.....do.....	xxx	6,102	xxx	2,552	xxx	4,840
3131100	Boot and shoe cut stock, not specified by kind.....	.....do.....	xxx	7,279	xxx	...	xxx	6,257
31312--	Other boot and shoe findings, total.....	.....	xxx	91,900	xxx	8,823	xxx	97,684
3131213	Platforms.....	1,000 doz. pairs	1,660	2,017	(D)	(D)	1,478	1,936
3131221	Wood heel blocks, made for sale as such...	.....do.....	4,536	9,443	(D)	(D)	8,828	12,315
3131231	Finished wood heels:	.....do.....	2,072	7,763	(D)	(D)	4,416	11,136
3131235	Manufactured complete in the reporting plant.....	.....do.....						
3131235	Finished from purchased blocks.....	.....do.....	5,069	15,824	1,296	5,275	5,815	17,445
3131243	Shanks.....	.....do.....	19,484	5,922	(D)	(D)	21,999	6,393
3131251	Welting (equivalent 1/2 inch wide).....	1,000 linear yds	140,676	12,324	18	1,479	166,099	13,869
3131298	Other findings.....	.....do.....	xxx	34,004	xxx	1,167	xxx	29,696
3131299	Boot and shoe findings, not specified by kind.....	.....do.....	xxx	4,603	xxx	...	xxx	4,894
3131000	Footwear cut stock, not specified by kind...	.....do.....	xxx	12,879	xxx	594	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

xxx Not applicable.

¹Figures exclude footwear cut stock and findings made from rubber and elastomer resin and plastics which are not primary to Industry 3131. Statistics on the shipments of rubber and elastomer resin footwear cut stock will be included with the figures for Industry 3099, Rubber Industries, N.E.C., footwear cut stock and findings made from plastics will be included with figures for Industry 3971, Plastic Products, N.E.C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-31A-3

FOOTWEAR, EXCEPT RUBBER INDUSTRY

(Industry Code 3141--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Footwear Except Rubber Industry produced products valued at \$2,042 million, an increase of 13 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 2 percent from 1954 to 1958 to a total of 214.7 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$1,081 million in 1958, an increase of 15 percent from 1954 when the previous census was taken. Ad-

Adjusted value added is derived by subtracting the cost of materials, fuels, etc., from value of production. It avoids the duplication in the value of production which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE FOOTWEAR, EXCEPT RUBBER, INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3141)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	214.7	219.4	-2
Payroll.....	Million dollars...	660.6	589.3	+12
Production workers:				
Number.....	Thousands.....	193.8	200.0	-3
Man-hours.....	Millions.....	347.7	356.7	-3
Wages.....	Million dollars...	540.8	490.1	+10
Value added by manufacture, unadjusted ².....	..do.....	1,073.4	940.7	+14
Value added by manufacture, adjusted ³.....	..do.....	1,081.2	943.0	+15
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	961.5	865.0	+11
Value of production ⁵.....	..do.....	2,042.3	1,809.1	+13
Capital expenditures, new.....	..do.....	14.3	11.4	+25
Number of establishments with 20 or more employees ⁶	Number.....	890	931	-4

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of production." Includes value of resale for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Footwear, Except Rubber Industry includes establishments engaged primarily in the manufacture of shoes, sandals, moccasins, boots, and allied footwear, and leggings, over-gaiters, etc., made chiefly of leather, but to some extent of canvas and other textiles. Also included in this industry are dress, work, play, or sport shoes made from leather, part-leather, or non-leather uppers such as plastics, and soles made from leather, composition, rubber, cork, etc., provided the shoes are made on conventional shoe machinery rather than by a rubber vulcanization process. Establishments primarily engaged in manufacturing rubber vulcanized footwear, including rubber-soled canvas shoes are classified in Industry 3021, Rubber Footwear; House Slippers in Industry 3142, House Slippers. Footwear made by custom boot makers is covered in the Census of Business. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF PRODUCTION

The value of production reported by establishments classified in Footwear, Except Rubber Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of production and other receipts of establishments classified in the Footwear, Except Rubber Industry amounted

to \$2,042 million. Of this total, \$1,984 million were products primary to the industry, \$20 million were products primary to other industries, and \$38 million were receipts for miscellaneous activities. The industry production of primary products represented 99 percent of the total manufactured product produced (primary and secondary). The 1954 ratio was also 99 percent.

The total value of production for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry produced by all producers. The latter figure appearing in table 3, indicates that \$2,003 million of footwear, except rubber were produced by all producers of these products. Of this total, \$1,984 million, or 99 percent, were produced by plants classified in Industry 3141, Footwear, Except Rubber, while the remainder was produced by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of production etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the production by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE FOOTWEAR, EXCEPT RUBBER, INDUSTRY (S.I.C. CODE 3141), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of production ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	214,723	660,606	193,808	347,667	540,803	1,073,396	1,081,204	2,042,268	14,322	890	219,375	940,704
New England.....	75,577	245,421	67,787	120,199	196,281	359,849	364,601	698,484	4,094	306	77,541	312,405
Maine.....	18,595	58,245	16,545	30,375	45,660	85,536	85,960	167,420	982	59	17,951	71,108
Massachusetts.....	38,628	129,663	34,522	60,305	102,481	191,645	195,358	364,286	2,191	179	41,069	168,367
Connecticut.....	1,570	4,892	1,445	2,541	4,019	6,663	6,670	12,364	65	12	1,362	4,726
Middle Atlantic.....	44,438	138,188	40,314	75,092	116,389	203,596	204,098	404,377	4,130	252	43,863	177,608
New York.....	20,772	69,804	18,620	33,600	58,344	100,515	100,638	199,759	1,987	124	23,127	99,788
New Jersey.....	828	2,750	734	1,513	2,219	3,993	3,975	8,264	76	10	927	4,244
Pennsylvania.....	22,838	65,634	20,960	39,979	55,826	99,088	99,485	196,354	2,067	118	19,807	73,575
East North Central.....	33,929	110,377	30,199	53,767	87,659	192,723	194,469	353,133	2,101	104	38,335	183,250
Indiana.....	1,950	6,468	1,842	3,650	5,824	12,895	12,870	22,715	226	6	1,579	8,865
Illinois.....	12,889	37,425	11,813	20,053	31,718	74,164	73,998	132,198	628	33	15,333	76,850
West North Central.....	29,387	81,847	26,776	46,034	68,254	158,621	158,413	282,196	1,221	94	31,596	147,419
Minnesota.....	1,057	4,012	852	1,523	2,496	6,653	6,717	11,949	80	7	928	4,588
Missouri.....	27,970	76,890	25,624	43,906	65,060	150,441	150,123	267,419	866	83	30,282	141,520
South.....	28,427	74,315	26,111	47,555	63,847	142,871	143,615	273,603	2,351	103	25,228	106,620
West.....	2,965	10,458	2,621	5,020	8,373	15,736	16,008	30,475	425	31	2,812	13,400

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of production shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of production."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF FOOTWEAR (EXCEPT RUBBER) MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Footwear, (except rubber) Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of production")

Product code	Product	1958		1954		
		Total production		Total production (quantity)	Total shipments including interplant transfers	
		Quantity (1,000 pairs)	Value (\$1,000)		Quantity (1,000 pairs)	Value (\$1,000)
3141---	Footwear, except rubber, total.....	¹ 526,868	2,003,331	473,463	473,355	1,779,134
31411--	Men's, youths', and boys' dress shoes, total.....	101,137	552,712	90,788	89,005	496,704
3141110	Men's dress, including moccasin-type dress shoes, (sizes 5 and over), total.....	76,137	469,969	71,104	69,442	431,616
3141112	Welted, including silhouwelt.....	58,352	394,914	61,570	xxx	xxx
3141113	McKay, including Littleway.....	7,538	28,493	4,683	xxx	xxx
3141114	Slip-lasted.....	328	2,167	4,212	xxx	xxx
3141115	Cement, excluding slip-lasted.....	4,857	23,426			
3141119	Other constructions.....	5,062	20,969			
	Construction not specified.....	xxx	xxx	639	xxx	xxx
3141130	Youths' and boys' (sizes 8 to 2, and 1 to 6), total.....	25,000	82,743	19,684	19,563	65,088
3141132	Welted, including Silhouwelt.....	12,306	49,678	9,378	xxx	xxx
3141133	McKay, including Littleway.....	2,040	5,506	1,782	xxx	xxx
3141136	Wood or metal fastened.....	(2)	(2)	1,248	xxx	xxx
3141137	Stitchdown.....	6,960	24,803	6,904	xxx	xxx
3141139	Other constructions.....	² 3,694	² 2,756	219	xxx	xxx
	Construction not specified.....	xxx	xxx	153	xxx	xxx
31412--	Men's work shoes, total.....	24,570	146,860	21,409	21,257	109,993
3141210	Men's work, including moccasin oxford-type less than 6" high (sizes 5 and over), total.....	8,944	55,628	³ 21,409	³ 21,257	³ 109,993
3141212	Welted, including Silhouwelt.....	7,688	52,278	³ 15,729	xxx	xxx
3141213	McKay, including Littleway.....	683	1,449	³ 3,003	xxx	xxx
3141216	Wood or metal fastened.....	4,573	41,901	³ 1,854	xxx	xxx
3141218	Vulcanized.....			³ 724	xxx	xxx
3141219	Other constructions.....			³ 99	xxx	xxx
	Construction not specified by kind.....	xxx	xxx			

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF FOOTWEAR (EXCEPT RUBBER) MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	1958		1954	
		Total production		Total production (quantity)	Total shipments including interplant transfers
		Quantity (1,000 pairs)	Value (\$1,000)	Quantity (1,000 pairs)	Value (\$1,000)
	Footwear, except rubber--Continued				
	Men's work shoes--Continued				
3141220	Men's work, 6" high and over (sizes 5 and over), total.....	15,626	91,232	(3)	(3)
3141222	Welted, including Silhouwelt.....	12,789	79,790	(3)	xxx
3141223	McKay, including Littleway.....	1,116	5,099		
3141226	Wood or metal fastened.....	(3)	(3)		
3141228	Vulcanized.....	247	1,718		
3141229	Other constructions.....	51,474	54,625		
31413--	Women's, misses' and children's shoes, total.....	249,362	970,431	241,436	243,905
3141310	Women's, including sandal type dress shoes (sizes 2 1/2 and over).....	182,420	781,071	173,610	175,601
3141312	Welted, including Silhouwelt.....	13,126	66,616	24,618	xxx
3141313	McKay, including Littleway.....	14,043	35,884	28,240	xxx
3141314	Slip-lasting.....	5,860	22,466	11,008	xxx
3141315	Cemented, excluding slip-lasting.....	136,514	605,831	99,700	xxx
3141319	Other constructions.....	12,877	50,274	7,104	xxx
	Construction not specified.....	xxx	xxx	2,940	xxx
	Misses', including sandal-type dress shoes (sizes 12 1/2 to 3), total....	36,834	107,959	36,894	37,254
3141332	Welted, including Silhouwelt.....	5,341	22,141	7,730	xxx
3141335	Cemented, excluding slip-lasting.....	16,515	52,514	9,709	xxx
3141337	Stitchdown.....	13,335	29,642	15,987	3,216
3141339	Other constructions.....	1,643	3,662	2,299	xxx
	Construction not specified.....	xxx	xxx	1,169	xxx
3141340	Children's (sizes 8 1/2 to 12), total.....	30,108	81,401	30,932	31,050
3141342	Welted, including Silhouwelt.....	5,899	23,417	7,017	xxx
3141345	Cemented, except slip-lasting.....	11,053	29,795	7,165	xxx
3141347	Stitchdown.....	11,877	25,480	14,787	xxx
3141349	Other constructions.....	1,279	2,709	1,655	xxx
	Construction not specified.....	xxx	xxx	308	xxx
31414--	Infants' and babies' shoes, total.....	35,517	74,381	36,493	36,394
3141410	Infants' (sizes 4 1/2 to 8), total.....	24,731	57,283	23,086	23,026
3141412	Welted, including Silhouwelt.....	7,236	21,882	7,444	xxx
3141415	Cemented, excluding slip-lasting.....	7,943	18,368	4,951	xxx
3141417	Stitchdown.....	7,248	12,754	8,007	xxx
3141419	Other constructions.....	2,304	4,279	1,968	xxx
	Construction not specified.....	xxx	xxx	716	xxx
3141430	Babies' (sizes 0 to 4), total.....	10,786	17,098	13,407	13,368
3141431	Turned.....	3,239	3,915	4,911	xxx
3141432	Welted, including Silhouwelt.....	2,546	4,836	1,919	xxx
3141437	Stitchdown.....	2,279	3,686	xxx	xxx
3141439	Other constructions.....	2,722	4,661	2,722	xxx
	Construction not specified.....	xxx	xxx	639	xxx
3141511	Athletic shoes (except rubber soled canvas top), such as baseball, basket ball, bowling, boxing, fencing, football, golf, skating, skiing, soccer, softball, track and field, wrestling, etc., men's, women's and children's..	5,488	26,869	3,529	3,531
31416--	Playshoes, total.....	103,765	213,145	75,047	74,732
3141620	Women's and misses', including non-dress type sandals, total.....	102,108	210,645	71,461	71,202
3141622	Welted, including Silhouwelt.....	5,404	10,520	2,298	xxx
3141623	McKay, including Littleway.....	6,416	14,482	6,347	xxx
3141624	Slip-lasting.....	30,930	62,837	32,782	xxx
3141625	Cemented, excluding slip-lasting.....	53,251	112,382	20,024	xxx
3141629	Other constructions.....	6,107	10,424	4,167	xxx
	Construction not specified.....	xxx	xxx	5,843	xxx
3141698	Play shoes, except women's and misses'.....	1,657	2,500	3,586	3,530
31417--	Other footwear, n.e.c.....	7,029	18,933	4,761	4,531
3141713	Beach and shower slippers (except rubber).....	274	399	4,761	4,531
3141798	All other footwear, except rubber and house slippers.....	6,755	18,534		

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

¹These quantity figures are from the 1958 Census of Manufactures and are preliminary data. Any necessary revisions will be shown in the final 1958 Census of Manufactures report. These total figures differ to some extent from the figures published in the Facts for Industry monthly reports M31A on footwear. The total figures published in the regular monthly reports are estimated totals obtained from a selected sample of approximately 550 companies. The differences between the 1958 monthly estimates and the comparable totals obtained from the Census of Manufactures are due to sampling fluctuations as well as some differences in reporting.

²For 1958, product code 3141136 combined with product code 3141139 to avoid disclosing figures for individual companies.

³For 1954, figures on men's oxford-type work shoes less than six-inches high and 6" high and over were not collected separately.

⁴For 1958, product codes 3141216, 3141218, and 3141219 were combined to avoid disclosing figures for individual companies.

⁵For 1958, product code 3141226 combined with product code 3141229 to avoid disclosing figures for individual companies.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-31A-4

HOUSE SLIPPERS INDUSTRY

(Industry Code 3142—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the House Slippers Industry produced products valued at \$110 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 11.3 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$59 million in 1958, an increase of 29 percent from 1954 when the

previous census was taken. Adjusted value added is derived by subtracting the cost of materials, fuels, etc., from value of production. It avoids the duplication in the value of production which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE HOUSE SLIPPER INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3142)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.3	10.9	+4
Payroll.....	Million dollars...	36.2	30.1	+20
Production workers:				
Number.....	Thousands.....	10.0	9.7	+3
Man-hours.....	Millions.....	17.7	16.8	+5
Wages.....	Million dollars...	27.5	22.9	+20
Value added by manufacture, unadjusted ².....	..do.....	58.2	45.1	+29
Value added by manufacture, adjusted ³.....	..do.....	58.6	45.4	+29
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	51.5	45.7	+13
Value of production ⁵.....	..do.....	109.9	90.8	+21
Capital expenditures, new.....	..do.....	0.6	(NA)	(NA)
Number of establishments with 20 or more employees ⁶	Number.....	94	99	-5

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of production shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of production." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The House Slippers Industry includes establishments engaged primarily in the manufacture of house slippers of leather or other materials, except as noted. Establishments primarily engaged in making vulcanized rubber slippers (beach and shower slippers, scuffs, etc.) are classified in Industry 3021, Rubber Footwear; wooden slippers, including wooden clogs, are classified in Industry 2499, Wood Products, N.E.C.; and paper bath slippers in Industry 2699, Converted Paper Products, N.E.C. Textile mills producing slipper socks are classified in Industry 2252, Seamless Hosiery. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF PRODUCTION

The value of production reported by establishments classified in House Slippers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of production and other receipts of establishments classified in the House Slippers Industry amounted to \$110 million. Of this total, \$98 million were products primary to the industry, \$10 million were products primary to other industries, and \$2

million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of production for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry produced by all producers. The latter figure, appearing in table 3, indicates that \$113 million of house slippers were produced by all producers of these products. Of this total, \$97 million, or 86 percent, were produced by plants classified in Industry 3142, House Slippers, while the remainder was produced by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of production, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the production by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE HOUSE SLIPPER INDUSTRY (S.I.C. CODE 3142), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em-ployees, number	Value added by manufac-ture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	11,303	36,195	9,966	17,659	27,523	58,220	58,554	109,937	578	94	10,879	45,050
New England.....	2,887	8,604	2,622	4,362	6,836	15,148	15,181	26,904	75	19	2,651	9,930
Massachusetts.....	2,382	6,800	2,194	3,530	5,522	12,447	12,486	21,578	58	15	2,169	7,903
Middle Atlantic.....	5,948	20,039	5,232	9,484	15,272	31,579	31,729	61,131	314	56	5,822	25,602
New York.....	4,265	14,024	3,686	6,531	10,609	23,220	23,283	43,027	190	42	4,531	19,692
New Jersey.....	882	3,868	808	1,527	2,872	4,739	4,721	9,947	42	5	750	3,820
Pennsylvania.....	801	2,147	738	1,426	1,791	3,620	3,725	8,157	82	9	541	2,089
East North Central.....	783	2,297	683	1,183	1,600	3,310	3,359	6,866	57	6	635	2,225
West North Central.....	941	2,682	812	1,559	2,055	4,389	4,400	8,284	43	6	448	1,819
South and West.....	744	2,573	617	1,071	1,760	3,794	3,885	6,752	89	7	1,321	5,470

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products produced less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of production."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF HOUSE SLIPPERS MADE BY ALL PRODUCERS, IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the House Slippers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of production")

Product code	Product	1958		1954		
		Total production		Total production (quantity) (1,000 pairs)	Total shipments including interplant transfers	
		Quantity (1,000 pairs)	Value (\$1,000)		Quantity (1,000 pairs)	Value (\$1,000)
3142—	House Slippers, total.....	68,884	112,927	56,904	56,000	92,241
	Men's, youths' and boys', total.....	16,820	37,272	13,505	13,319	27,662
3142011	Turned.....	824	1,125	1,647	xxx	xxx
3142015	Cemented, excluding slip-lasted.....	7,001	14,567	2,640	xxx	xxx
3142017	Stitchdown.....	2,792	8,557	1,845	xxx	xxx
3142018	Soft-sole.....	4,385	8,769	25,242	xxx	xxx
3142019	Other constructions.....	1,818	4,254			
3142010	Constructions not specified.....	...	...	32,131	xxx	xxx
	Women's, total.....	42,539	64,227	33,944	33,519	53,387
3142031	Turned.....	782	684	2,574	xxx	xxx
3142033	McKay, including Littleway.....	1,269	1,766	1,903	xxx	xxx
3142053	Slip-lasted, total.....	5,500	7,737	10,689	xxx	xxx
3142034	Made and intended for indoor use.....	4,960	6,779	10,689	xxx	xxx
3142054	All other types.....	540	958			
	Cemented, excluding slip-lasted, total.....	11,425	22,014	6,387	xxx	xxx
3142035	Made and intended for indoor use.....	10,592	20,719	6,387	xxx	xxx
3142055	All other types.....	833	1,295			
	Soft-sole, total.....	16,512	21,941	210,640	xxx	xxx
3142038	Made and intended for indoor use.....	14,329	19,405			
3142058	All other types.....	2,183	2,536	10,085	xxx	xxx
3142039	Other constructions.....	17,051	10,085			
3142059	Construction not specified.....	...	...	1,751	xxx	xxx
3142069	Misses'.....	2,877	3,744	2,512	2,512	3,961
3142079	Childrens', infants' and babies'.....	6,648	7,684	6,943	6,650	7,231

xxx Not applicable.

¹These quantity figures are from the 1958 Census of Manufactures and are preliminary data. Any necessary revision will be shown in the final 1958 Census of Manufactures report. These total figures differ to some extent from the figures published in the Facts for Industry monthly reports M31A on footwear. The total figures published in the regular monthly reports are estimated totals obtained from a selected sample of approximately 550 companies. The differences between the 1958 monthly estimates and the comparable totals obtained from the Census of Manufactures are due to sampling fluctuations as well as some differences in reporting.

²Includes substantial amounts of soft-sole construction.

³Includes production of 1,078,000 pairs of youth's and boys' house slippers, for which type of construction was not collected in 1954.

USCOMM--DC

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-31A-5

LEATHER TANNING AND FINISHING INDUSTRY

(Industry Code 3111—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Leather Tanning and Finishing Industry shipped products valued at \$742 million, an increase of 4 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 37.1 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$276 million in 1958, an increase of 6 percent from 1954

when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LEATHER TANNING AND FINISHING INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3111)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	37.1	43.5	-15
Payroll.....	Million dollars...	165.5	168.1	-1
Production workers:				
Number.....	Thousands.....	32.5	38.7	-16
Man-hours.....	Millions.....	63.5	75.7	-16
Wages.....	Million dollars...	133.1	137.5	-3
Value added by manufacture, unadjusted ².....	..do.....	276.9	264.3	+5
Value added by manufacture, adjusted ³.....	..do.....	275.6	260.2	+6
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	465.5	448.3	+4
Value of shipments ⁵.....	..do.....	741.7	713.3	+4
Capital expenditures, new.....	..do.....	7.9	7.1	+11
Number of establishments with 20 or more employees ⁶	Number.....	280	298	-6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Leather Tanning and Finishing Industry includes establishments engaged primarily in tanning, currying, and finishing sole and belting leathers, upper and lining leathers, and miscellaneous specialty leathers, and in embossing, japanning, and currying leathers. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Leather Tanning and Finishing Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Leather Tanning and Finishing Industry amounted to \$742 million. Of this total, \$632 million were products primary to the industry, \$2 million were products primary to other industries, and \$108 million were receipts for miscellaneous activities mainly contract receipts. The industry shipments of primary products represented almost 100 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$635 million of tanned, finished and rough leathers were shipped by all producers of these products. Of this total, \$632 million, or 99 percent, were shipped by plants classified in Industry 3111, Leather Tanning and Finishing, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

Table 2.--GENERAL STATISTICS FOR THE LEATHER TANNING AND FINISHING INDUSTRY (S.I.C. CODE 3111) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	37,121	165,454	32,456	63,463	133,050	276,866	275,610	741,729	7,868	280	43,468	264,264
New England.....	10,966	49,641	9,547	18,750	39,782	85,066	85,435	242,945	2,618	97	12,704	78,556
New Hampshire.....	1,758	7,407	1,567	3,124	6,304	11,160	10,971	23,668	198	11	1,718	9,598
Massachusetts.....	7,556	35,948	6,486	12,634	28,185	62,849	63,761	193,460	1,969	73	9,913	63,394
Middle Atlantic.....	11,340	48,588	9,935	19,010	39,182	79,920	80,081	211,688	1,582	94	13,567	78,063
New York.....	4,156	17,812	3,695	6,891	14,824	31,166	31,369	87,236	534	32	4,370	29,246
New Jersey.....	2,854	12,657	2,423	4,858	9,853	21,369	21,331	51,759	588	35	3,079	20,023
Pennsylvania.....	4,330	18,119	3,817	7,261	14,525	27,365	27,381	72,693	460	27	6,117	28,793
East North Central.....	8,931	44,193	7,799	15,702	35,490	70,711	69,709	182,610	2,184	46	10,598	69,849
Illinois.....	2,303	11,974	2,104	4,251	9,851	18,080	18,268	45,010	623	12	2,815	18,650
Michigan.....	927	4,330	774	1,496	3,451	6,422	6,439	17,101	212	5	1,881	11,374
Wisconsin.....	4,346	21,675	3,731	7,589	17,073	35,752	35,227	93,959	1,111	21	4,326	30,221
West North Central.....	634	2,814	554	1,074	2,208	4,688	4,708	12,403	233	4	669	4,311
South.....	4,505	16,759	3,962	7,614	13,627	30,497	29,692	79,370	800	29	5,163	27,845
Delaware.....	1,489	6,329	1,195	2,289	4,821	10,872	10,482	24,555	208	6	1,704	10,841
West.....	745	3,459	659	1,313	2,761	5,984	5,985	12,713	451	10	766	5,639
California.....	674	3,222	599	1,201	2,569	5,515	5,528	11,862	401	9	727	5,419

¹Each producing State not shown separately in the above table was included either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF TANNED, FINISHED, AND ROUGH LEATHERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Leather Tanning and Finishing Industry but also by establishments making these items as "secondary" products to other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3111----	Tanned, curried, and finished leather, total.....	.....	xxx	635,230	xxx	618,177
31111--	Cattle hide and kip side finished leathers, total.....	.....	xxx	411,955	xxx	383,080
	Grains, except offal and wetting leather (heads, shoulders, bellies, etc.):					
	Sole leather					
3111111	Vegetable tanned (backs, bends, and sides).....	1,000 lbs.....	109,991	48,424	114,595	56,272
3111113	Chrome or retan (backs, bends, and sides).....	1,000 sq. ft.....	17,010	6,509	16,744	8,350
3111124	Belting and mechanical leather.....	1,000 lbs.....	6,020	5,520	6,946	6,947
3111132	Harness, collar, skirting, lace and latigo leather (sides).....	.....do.....	4,109	3,327	5,466	3,900
3111133	Bag, case and strap leather (sides).....	1,000 sq. ft.....	45,319	17,633	32,232	13,641
3111135	Upholstery leather-top grains and machine buffs (hides).....	.....do.....	32,757	14,957	34,340	18,971
3111137	Upper leather, excluding patent (sides).....	.....do.....	551,932	205,732	538,326	186,879
3111141	Patent leather (sides).....	.....do.....	61,226	23,822	31,746	10,404
3111143	Lining leather (sides).....	.....do.....	11,878	3,548	15,202	4,447
3111145	Garment leather (sides).....	.....do.....	21,011	6,478	13,444	4,204
3111149	Other grains, including flat and handbag (except wetting leather).....	.....do.....	15,016	5,423	22,107	7,152

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF TANNED, FINISHED, AND ROUGH LEATHERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3111--	Tanned, curried, and finished leather--Continued					
3111--	Cattle hide and kip side finished leathers--Continued					
	Offal (heads, shoulders, bellies, etc.) except splits and welting leather:					
	Sole leather:					
311151	Vegetable tanned.....	1,000 lbs.....	50,578	15,133	57,906	18,490
311153	Chrome or retan.....	1,000 sq. ft.....	3,204	1,108	4,539	1,627
311157	Waist belt leather.....	1,000 lbs.....	5,072	4,221	5,900	4,625
311159	Other offal, except welting leather.....	..do.....	xxx	3,620	xxx	4,611
311160	Welting leather grains and offal.....	..do.....	4,203	1,320	9,669	3,954
	Finished splits (including shoulder splits, deep buffs, buffing and fleshers):					
311161	Bottom stock.....	1,000 sq. ft.....	22,315	4,997	22,187	4,540
311163	Upper.....	..do.....	49,933	12,790	34,993	8,724
311165	Lining.....	..do.....	76,105	15,048	54,251	9,277
311167	Glove.....	..do.....	17,998	4,176		
311168	Upholstery, including deep buffs.....	..do.....	5,927	1,483	31,266	6,065
311169	Other.....	..do.....	18,883	3,262		
311100	Cattle hide and kip side finished leathers, not specified by kind.....	..do.....	xxx	4,424	xxx	...
3111200	Calf and whole kip finished leathers.....	1,000 sq. ft.....	82,956	62,643	92,604	63,599
31113--	Sheep and lamb finished leather, total.....	..do.....	xxx	57,226	xxx	62,156
3111312	Shoe.....	..do.....	56,915	13,647	65,519	14,433
3111317	Glove.....	..do.....	10,004	2,146	13,246	3,001
3111331	Garment.....	..do.....	87,242	22,376	76,017	20,639
3111333	Fleshers.....	..do.....	19,450	4,010	9,379	2,688
3111335	Skivers.....	..do.....	22,718	4,286	21,636	4,036
3111339	Other.....	..do.....	18,290	4,602	33,800	10,326
3111351	Shearlings.....	..do.....	13,644	5,709	16,851	7,033
3111398	Other sheep and lamb finished leather.....	..do.....	...	...	xxx	xxx
3111300	Sheep and lamb finished leather, not specified by kind.....	..do.....	xxx	450	...	...
31114--	Other finished leathers, total.....	..do.....	xxx	69,156	xxx	85,408
	Goats and kid leathers:					
3111411	Upper.....	1,000 sq. ft.....	69,941	35,119	89,654	44,703
3111413	Lining.....	..do.....	21,845	7,629	23,339	8,240
3111419	Other.....	..do.....	1,692	691	4,629	1,790
3111420	All cabretta leathers.....	..do.....	12,409	5,365	11,505	4,592
	Horse, colt, mule, ass and pony leathers:					
3111431	Upper.....	..do.....	5,535	3,350	9,012	5,011
3111439	Other.....	..do.....	12,625	6,257	41,460	11,350
3111451	Pig and hog leathers, including peccary, carpincho, bacon rind and strips, etc.....	..do.....	10,404	3,373	11,823	3,451
3111459	Other animals.....	..do.....	13,758	6,335	13,605	6,471
3111400	Other finished leathers, not specified by kind.....	..do.....	xxx	1,037	xxx	xxx
31115--	Rough, russet and crust leather (not finished in the reporting establishment), total.....	..do.....	xxx	26,728	xxx	23,934
3111510	Grains, except offal.....	..do.....	xxx	9,789		
3111530	Offal (heads, shoulders, bellies, etc.).....	..do.....	xxx	1,665	xxx	23,934
3111551	Splits (including shoulder splits, deep buffs, buffing and fleshers).....	..do.....	xxx	15,274		
3111000	Leather tanning and finishing, not specified by kind.....	..do.....	xxx	7,522	xxx	...

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-31B-1

SMALL LEATHER GOODS INDUSTRY

(Industry Code 3172--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Small Leather Goods Industry shipped products valued at \$78 million, an increase of 34 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 12 percent from 1954 to 1958 to a total of 7.5 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$43 million in 1958, an increase of 32 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SMALL LEATHER GOODS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3172)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.5	6.7	+12
Payroll.....	Million dollars...	25.3	19.0	+33
Production workers:				
Number.....	Thousands.....	6.4	5.8	+10
Man-hours.....	Millions.....	12.0	11.0	+9
Wages.....	Million dollars...	17.1	13.3	+29
Value added by manufacture, unadjusted ².....	..do.....	42.0	32.5	+29
Value added by manufacture, adjusted ³.....	..do.....	43.1	32.6	+32
Cost of materials, fuel, electricity, and contract work.....	..do.....	34.9	25.4	+38
Value of shipments ⁴.....	..do.....	78.0	58.1	+34
Capital expenditures, new.....	..do.....	0.6	1.0	-40
Number of establishments with 20 or more employees ⁵	Number.....	67	65	+3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Small Leather Goods Industry includes establishments engaged primarily in the manufacture of small leather articles such as billfolds, card cases, cigarette cases, key cases, coin purses, tobacco pouches, and check-book covers. Also included are establishments making these products from plastic and non-leather materials. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Small Leather Goods Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Small Leather Goods Industry amounted to \$78 million. Of this total, \$67 million were products primary to the industry, \$4 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$76 million of billfolds and other small leather goods were shipped by all producers of these products. Of this total, \$67 million, or 89 percent, were shipped by plants classified in Industry 3172, Small Leather Goods while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these report and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE SMALL LEATHER GOODS INDUSTRY (S.I.C. CODE 3172) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,531	25,301	6,386	12,023	17,111	41,999	43,054	77,999	590	67	6,663	32,549
New England.....	1,096	4,511	910	1,679	2,835	6,932	7,406	12,177	213	8	773	4,792
Middle Atlantic.....	4,210	12,535	3,716	7,156	9,654	19,425	20,348	39,314	248	41	4,129	17,192
New York.....	2,298	6,818	1,992	3,884	5,289	11,223	11,876	23,988	173	29	2,574	10,878
New Jersey.....	1,256	3,699	1,154	2,144	2,966	5,494	5,618	10,470	45	7	1,168	4,813
Pennsylvania.....	656	2,018	570	1,128	1,399	2,708	2,854	4,856	30	5	385	1,501
East North Central.....	1,069	4,078	832	1,527	2,459	7,598	7,401	12,997	55	9	834	4,691
Illinois.....	288	782	250	395	577	1,343	1,442	2,790	19	4	161	651
West North Central.....	764	3,023	588	1,013	1,342	5,816	5,631	9,289	42	4	656	4,658
South.....	313	866	276	535	610	1,640	1,633	3,094	18	4	184	694
West South Central.....	188	512	177	372	396	1,081	1,053	2,006	15	2	136	522
West.....	79	288	64	113	211	588	635	1,128	14	1	85	519

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF SMALL LEATHER GOODS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Small Leather Goods Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity	Value	Quantity	Value
		(1,000 units)	(\$1,000)	(1,000 units)	(\$1,000)
3172---	Small leather goods, total	xxx	75,628	xxx	58,013
	Billfolds, wallets, and French purses, total.....	37,105	57,413	31,550	41,716
3172011	All-leather and chiefly leather.....	27,730	52,102	19,706	35,326
3172015	Plastic or chiefly plastic.....	8,938	4,946	11,632	6,214
3172017	Other materials.....	437	365	212	176
3172098	Other small personal goods made of leather and related products such as key case, cigarette cases, tobacco pouches, etc.....	xxx	11,367	xxx	9,151
3172000	Small leather goods, not specified by kind.....	xxx	6,848	xxx	7,146

xxx Not applicable.

USCOMM--DC

GROUP 32

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -31B-2

LUGGAGE INDUSTRY

(Industry Code 3161—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Luggage Industry shipped products valued at \$185 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 15.7 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$96 million in 1958, an increase of 4 percent from 1954 when the previous census was

taken. Adjusted value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LUGGAGE INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3161)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.7	15.9	-1
Payroll.....	Million dollars...	54.2	51.7	+5
Production workers:				
Number.....	Thousands.....	13.6	14.0	-3
Man-hours.....	Millions.....	24.8	27.4	-10
Wages.....	Million dollars...	39.8	39.8	0.0
Value added by manufacture, unadjusted ².....	...do.....	95.2	89.4	+7
Value added by manufacture, adjusted ³.....	...do.....	96.1	91.3	+4
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	88.5	82.5	+7
Value of shipments ⁵.....	...do.....	184.6	172.7	+7
Capital expenditures, new.....	...do.....	1.5	1.9	-21
Number of establishments with 20 or more employees ⁶	Number.....	154	159	-3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Luggage Industry includes establishments engaged primarily in the manufacture of suitcases, briefcases, bags, trunks, and related luggage of leather or other materials. Other products included in this industry are: hat boxes (except paper or paperboard), camera and binocular cases, toilet kits and cases. Establishments primarily engaged in manufacturing luggage hardware are classified in Industry 3429, Hardware, N.E.C. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Luggage Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Luggage Industry amounted to \$185 million. Of this total, \$173 million were products primary to the industry, \$7 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product

shipments (primary and secondary). The 1954 ratio was 94 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$182 million of luggage were shipped by all producers of these products. Of this total, \$173 million, or 95 percent, were shipped by plants classified in Industry 3161, Luggage, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.--GENERAL STATISTICS FOR THE LUGGAGE INDUSTRY (S.I.C. CODE 3161) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	15,687	54,204	13,557	24,843	39,788	95,157	96,063	184,554	1,492	154	15,856	89,385
New England.....	1,414	4,849	1,227	2,301	3,306	8,833	8,709	19,093	129	15	1,094	5,205
Massachusetts.....	719	2,101	635	1,153	1,589	3,484	3,514	6,729	64	11	830	3,886
Middle Atlantic.....	7,231	23,856	6,367	11,592	17,953	40,453	40,966	81,273	488	84	7,123	36,018
New York.....	4,378	13,883	3,901	7,018	10,814	25,237	25,736	50,568	391	53	4,323	20,946
New Jersey.....	2,026	7,500	1,760	3,287	5,260	11,107	11,233	21,702	56	19	1,934	11,056
Pennsylvania.....	827	2,473	706	1,287	1,879	4,109	3,997	9,003	41	12	865	4,015
East North Central.....	1,911	6,773	1,562	2,858	4,827	11,508	11,428	21,128	117	28	2,490	12,074
Ohio.....	161	610	112	225	358	840	940	1,692	8	3	241	1,172
Illinois.....	1,122	3,880	966	1,755	2,998	6,714	6,721	12,618	66	18	1,493	7,468
Wisconsin.....	473	1,801	358	664	1,172	2,948	2,767	4,953	23	4	611	2,510
West North Central.....	906	2,773	767	1,433	2,058	4,232	4,270	8,551	89	6	1,178	5,361
South.....	1,533	4,248	1,403	2,471	3,440	8,323	8,208	17,887	125	11	1,326	7,554
West.....	2,692	11,705	2,231	4,188	8,204	21,808	22,482	36,622	544	10	2,641	23,171

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF LUGGAGE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Luggage Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3161---	Luggage, total.....	xxx	181,749	xxx	162,587
3161010	Women's hand luggage:				
	Overnight week-end, pullman and fitted cases, total.....	10,687	54,015	7,297	49,375
3161011	All-leather and chiefly leather.....	338	2,443	774	6,189
3161013	Plastic and chiefly plastic.....	6,610	29,721	6,523	43,186
3161019	All other materials.....	3,739	21,851	3,002	15,181
3161020	Train boxes, hat and shoe boxes, total.....	3,163	16,993	72	843
3161021	All-leather and chiefly leather.....	21	239		
3161023	Plastic and chiefly plastic.....	928	5,344	2,930	14,338
3161029	All other materials, except paper or paperboard.....	2,214	11,410		
3161030	Men's two-suiters, gladstones, suitcases, and end opening wardrobe cases, total.....	1,242	17,776	1,964	23,122
3161031	All leather and chiefly leather.....	191	4,030	535	8,601
3161033	Plastic and chiefly plastic.....	514	6,278	1,429	14,521
3161039	All other materials.....	537	7,468		
3161043	Men's club and overnight bags.....	685	5,700	*2,260	9,118
3161053	Occupational luggage cases, sample cases, binocular and camera cases.....	(NA)	13,617	(NA)	9,285
3161063	Trunks, hand trunks, and lockers.....	664	5,291	872	6,748
3161073	Brief cases, zipper cases, brief bags and school bags, total.....	9,185	26,972	xxx	15,730
	Quantity reported.....	9,185	26,972	5,362	13,316
	Quantity not reported.....	xxx	xxx	xxx	2,414
2361085	Men's travel kits (including toilet cases).....	1,650	4,011	1,579	3,638
3161098	Other luggage, including luggage handles and trimmings.....	xxx	20,557	xxx	15,811
3161000	Luggage not specified by kind.....	xxx	16,817	xxx	14,579

*Revised.

NA Not available.

xxx Not applicable.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -31B-3

HANDBAGS AND PURSES INDUSTRY

(Industry Code 3171—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Handbags and Purses Industry shipped products valued at \$234 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 4 percent from 1954 to 1958 to a total of 22.1 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$112 million in 1958, an increase of 20 percent from 1954 when the previous

census was taken. Adjusted value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE HANDBAGS AND PURSES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3171)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	22.1	22.9	-4
Payroll.....	Million dollars...	69.5	61.4	+13
Production workers:				
Number.....	Thousands.....	19.6	20.9	-6
Man-hours.....	Millions.....	37.8	39.9	-5
Wages.....	Million dollars...	54.8	49.6	+10
Value added by manufacture, unadjusted ².....	..do.....	111.3	93.0	+20
Value added by manufacture, adjusted ³.....	..do.....	112.4	93.9	+20
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	121.7	100.5	+21
Value of shipments ⁵.....	..do.....	234.3	194.3	+21
Capital expenditures, new.....	..do.....	1.6	1.0	+60
Number of establishments with 20 or more employees ⁶	Number.....	261	247	+6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Handbags and Purses Industry includes establishments engaged primarily in the manufacture of women's handbags and purses of leather or other materials. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Handbags and Purses Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Handbags and Purses Industry amounted to \$234 million. Of this total, \$210 million were products primary to the industry, \$13 million were products primary to other industries, and \$11 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$214 million of handbags and purses were shipped by all producers of these products. Of this total, \$210 million, or 98 percent, were shipped by plants classified in Industry 3171, Handbags and Purses, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.—GENERAL STATISTICS FOR THE HANDBAGS AND PURSES INDUSTRY (S.I.C. CODE 3171) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	22,141	69,468	19,611	37,779	54,845	111,348	112,447	234,319	1,573	261	22,881	92,968
New England.....	2,253	7,013	2,007	3,784	5,675	10,693	10,494	20,548	78	17	2,130	8,397
Middle Atlantic.....	17,823	56,250	15,750	30,523	44,021	90,086	91,285	193,970	1,308	214	18,365	75,032
New York.....	13,479	43,589	11,750	22,811	33,739	69,605	70,752	154,178	1,024	175	13,845	59,646
New Jersey.....	3,139	9,545	2,852	5,731	7,435	14,851	14,900	29,422	244	28	3,193	11,227
Pennsylvania.....	1,205	3,116	1,148	1,981	2,847	5,630	5,633	10,370	40	11	1,326	4,158
East North Central.....	260	755	237	440	656	1,305	1,273	2,456	11	4	251	1,264
Illinois.....	118	303	105	194	263	453	451	948	7	2	104	506
West North Central.....	756	2,590	690	1,379	2,068	3,789	3,815	7,268	51	9	977	3,096
South Atlantic.....	340	761	299	490	623	1,643	1,637	2,468	54	7	327	1,321
East South Central.....	103	193	87	144	164	445	442	815	18	1	35	115
West South Central.....	167	444	134	214	323	703	750	1,819	34	3	160	427
West.....	439	1,462	407	805	1,315	2,684	2,751	4,975	19	6	633	3,311
California.....	423	1,421	394	784	1,282	2,598	2,675	4,820	19	6	613	3,256

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF HANDBAGS AND PURSES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Handbags and Purses Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3171---	Handbags and purses, total.....	xxx	213,987	xxx	180,309
3171011	Ladies and children's handbags and purses:				
	All-leather and chiefly leather, total.....	15,078	70,847	xxx	67,959
	Quantity reported.....	15,078	70,847	16,024	61,442
	Quantity not reported.....	xxx	...	xxx	6,517
3171051	Plastic or chiefly plastic.....	46,395	73,090	38,651	59,051
3171071	Other materials.....	11,849	35,945	10,374	29,607
3171098	Other handbags and purses.....	xxx	34,105	xxx	7,752
3171000	Women's handbags and purses, not specified by kind.....			xxx	15,940

xxx Not applicable.

U. S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-31B-4

LEATHER DRESS GLOVES INDUSTRY

(Industry Code 3151--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Leather Dress Gloves Industry shipped products valued at \$34 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 4.1 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$17 million in 1958, an increase of 29 percent from 1954 when the pre-

vious census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of production. It avoids the duplication in the value of production which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LEATHER DRESS GLOVES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3151)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	4.1	4.4	-7
Payroll.....	Million dollars...	10.7	9.7	+10
Production workers:				
Number.....	Thousands.....	3.6	4.0	-10
Man-hours.....	Millions.....	(NA)	6.5	(NA)
Wages.....	Million dollars...	8.2	7.6	+8
Value added by manufacture, unadjusted ².....	..do.....	16.2	13.6	+19
Value added by manufacture, adjusted ³.....	..do.....	16.7	13.0	+29
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	17.4	16.7	+4
Value of production ⁵.....	..do.....	34.2	30.6	+12
Capital expenditures, new.....	..do.....	(6)	...	...
Number of establishments with 20 or more employees ⁷	Number.....	48	55	-13

NA Not available.

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of production less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of production."

⁶Less than \$500 thousand.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Leather Dress Gloves Industry includes establishments engaged primarily in the manufacture of dress and semidress gloves exclusively of leather. Establishments primarily engaged in manufacturing leather work gloves and mittens are classified in Industry 3152, Leather Work Gloves; knit gloves in Industry 2255, Knit Glove Mills; dress and semidress gloves and mittens made of cloth or cloth and leather combined in Industry 2381, Fabric and Combination Dress Gloves and sport and athletic gloves in Industry 3949, Sporting and Athletic Goods. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF PRODUCTION

The value of production reported by establishments classified in Leather Dress Gloves Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of production and other receipts of establishments classified in the Leather Dress Gloves Industry amounted to \$34 million. Of this total, \$26 million were products primary to the industry, \$5 million

were products primary to other industries, and \$3 million were receipts for miscellaneous activities. The industry production of primary products represented 84 percent of the total manufactured products (primary and secondary). The 1954 ratio was 86 percent.

The total value of production for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry made by all producers. The latter figure, appearing in table 3, indicates that \$31 million of leather dress and semi-dress gloves and mittens were made by all producers of these products. Of this total, \$26 million, or 85 percent, were made by plants classified in Industry 3151, Leather Dress Gloves, while the remainder was made by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of production, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the production by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE LEATHER DRESS GLOVES INDUSTRY (S.I.C. CODE 3151) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of production ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em-ployees, number	Value added by manufac-ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unad-justed ² (\$1,000)	Ad-justed ³ (\$1,000)					
United States, total.....	4,086	10,658	3,607	5,823	8,231	16,220	16,656	34,155	177	48	4,438	13,559
Northeast.....	3,149	8,100	2,747	4,340	6,209	12,500	12,912	27,223	157	38	3,554	10,652
New York.....	2,914	7,483	2,531	3,958	5,727	11,557	11,958	25,585	(D)	34	3,251	9,759
North Central.....	643	1,884	586	1,015	1,446	2,641	2,668	5,161	(D)	6	587	2,087
South and West.....	294	674	274	468	576	1,079	1,076	1,771	(D)	4	296	818

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of production less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of production."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF LEATHER DRESS GLOVES MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Leather Dress Gloves Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of production")

Product code	Product	Total production			
		1958		1954	
		Quantity (1,000 dozen pairs)	Value (\$1,000)	Quantity (1,000 dozen pairs)	Value (\$1,000)
3151---	Leather dress and semi-dress gloves and mittens, total ²	xxx	30,972	xxx	26,515
3151012	Men's and boys', total.....	657	30,972	625	16,138
3151014	Table cut.....	67		59	2,014
3151016	Pattern and pull down cut.....	40		75	2,091
3151018	Block cut.....	540		491	12,033
3151052	Womens', misses', and children's, total.....	...	30,972	219	6,874
3151054	Table cut.....	87		96	3,394
3151056	Pattern and pull down cut.....	50		27	900
3151058	Block cut.....	134		96	2,580
3151000	Leather dress and semi-dress gloves and mittens, not specified by kind.....	xxx		xxx	3,503

xxx Not applicable.

¹The quantity detail obtained from the 1958 Annual Commodity Survey on Gloves and Mittens MA23D.

²Includes only all-leather dress and semi-dress gloves. Leather-and-fabric combinations are included in Industry 2381.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-31B-5

LEATHER WORK GLOVES INDUSTRY

(Industry Code 3152--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Leather Work Gloves Industry made products valued at \$19 million, a decrease of 2 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 12 percent from 1954 to 1958 to a total of 2,2 thousand employees in 1958. Adjusted value added by manufacture in the industry amounted to \$9 million in 1958, a decrease of 11 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of production. It avoids the duplication in the value of production which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LEATHER WORK GLOVES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3152)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.2	2.5	-12
Payroll.....	Million dollars...	5.3	5.8	-9
Production workers:				
Number.....	Thousands.....	1.9	2.2	-14
Man-hours.....	Millions.....	3.3	3.9	-15
Wages.....	Million dollars...	4.4	4.7	-6
Value added by manufacture, unadjusted ².....	..do.....	8.4	9.6	-13
Value added by manufacture, adjusted ³.....	..do.....	8.6	9.7	-11
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	10.5	9.5	+11
Value of production ⁵.....	..do.....	19.0	19.4	-2
Capital expenditures, new.....	..do.....	(6)	...	-
Number of establishments with 20 or more employees ⁷	Number.....	28	35	-20

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of Production." Includes value of resales for both years.

⁶Less than \$100,000.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Leather Work Gloves Industry includes establishments engaged primarily in the manufacture of leather work gloves and mittens. Establishments primarily engaged in manufacturing dress and semidress leather gloves are classified in Industry 3151, Leather Dress Gloves; knitted work gloves in Industry 2255, Knit Gloves Mills; work gloves and mittens of cloth, or cloth and leather combined in Industry 2382, Fabric and Combination Work Gloves; and Sporting and athletic gloves in Industry 3949, Sporting and Athletic Goods. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF PRODUCTION

The value of production reported by establishments classified in Leather Work Gloves Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of production and other receipts of establishments classified in the Leather Work Gloves and Mittens Industry amounted to \$19 million. Of this total, \$14 million were products primary to the industry, \$4 million were products primary to other

industries, and \$1 million were receipts for miscellaneous activities. The industry production of primary products represented 79 percent of the total manufactured products (primary and secondary). The 1954 ratio was 82 percent.

The total value of production for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry made by all producers. The latter figure, appearing in table 3, indicates that \$18 million of leather work gloves and mittens were produced by all producers of these products. Of this total, \$14 million, or 78 percent, were produced by plants classified in Industry 3152, Leather Work Gloves and Mittens, while the remainder was produced by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE LEATHER WORK GLOVES INDUSTRY (S.I.C. CODE 3152) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of production ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	2,166	5,347	1,915	3,271	4,377	8,354	8,598	19,006	83	28	2,479	9,626
Northeast.....	168	402	134	208	287	747	788	1,195	(D)	2	268	783
New York.....	75	148	65	92	124	335	336	600	...	1	108	357
North Central.....	1,595	3,884	1,438	2,435	3,245	5,844	5,959	13,611	46	20	1,685	7,008
Wisconsin.....	404	1,092	336	593	804	1,401	1,419	3,190	...	7	586	2,538
South and West.....	403	1,061	343	628	845	1,763	1,851	4,200	(D)	5	526	1,833

¹ D Withheld to avoid disclosing the operations of individual companies.

² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

³ Value of production less cost of materials, supplies, fuel, electricity, and contract work.

⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in work-in-process inventories between the beginning and end of year.

⁵ For explanation see text under "Value of production."

⁶ Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF LEATHER WORK GLOVES MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Leather Work Gloves Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total production			
		1958		1954	
		Quantity ¹ (1,000 dozen pairs)	Value (\$1,000)	Quantity (1,000 dozen pairs)	Value (\$1,000)
3152---	Leather work gloves and mittens, total ²	1,250	18,239	1,212	17,086
3152031	All grain leather.....	893	18,239	780	10,928
3152051	All split leather.....	216		280	3,260
3152071	Part-grain and part-split leather.....	27		50	887
3152011	Welders'.....	114		102	2,011

¹ Product detail for 1958 was obtained from the annual commodity survey on gloves and mittens MA23D.

² Includes only all leather work gloves and mittens. Leather- and -fabric combinations are included in Industry 2382, "Work Gloves."

GROUP 32

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

GROUP 32

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-32A-1

GLASS CONTAINERS INDUSTRY

(Industry Code 3221--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Glass Containers Industry shipped products valued at \$862 million, an increase of 36 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 11 percent from 1954 to 1958 to a total of 54.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$532 million in 1958, an increase of 38 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE GLASS CONTAINERS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3221)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	54.9	49.4	+11
Payroll.....	Million dollars...	259.9	195.9	+33
Production workers:				
Number.....	Thousands.....	48.6	44.1	+10
Man-hours.....	Millions.....	97.6	88.7	+10
Wages.....	Million dollars...	218.3	167.1	+31
Value added by manufacture, unadjusted ².....	..do.....	526.4	377.2	+40
Value added by manufacture, adjusted ³.....	..do.....	532.0	384.6	+38
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	333.6	258.0	+29
Value of shipments ⁵.....	..do.....	861.8	635.1	+36
Capital expenditures, new.....	..do.....	31.1	26.5	+17
Number of establishments with 20 or more employees ⁶	Number.....	92	83	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Glass Containers Industry includes establishments engaged primarily in the manufacture of glass containers for commercial packing and bottling, and for home canning. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Glass Containers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Glass Containers Industry amounted to \$862 million. Of this total, \$839 million were products primary to the industry, \$8 million were products primary to other industries, and \$15 million were receipts for miscellaneous activities. The industry shipments of primary products represented 99 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should

be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$843 million of glass containers were shipped by all producers of these products. Of this total, \$839 million, or 99 percent, were shipped by plants classified in Industry 3221, Glass Containers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE GLASS CONTAINERS INDUSTRY (S.I.C. CODE 3221) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,937	259,893	48,635	97,642	218,358	526,426	532,039	861,817	31,054	92	49,410	377,161
Middle Atlantic.....	19,064	85,485	17,246	34,049	73,334	166,460	169,298	280,542	10,334	26	16,757	115,414
Pennsylvania.....	9,193	39,563	8,382	16,076	34,271	74,526	74,925	125,276	4,274	15	8,172	52,791
East North Central.....	16,096	76,658	14,095	28,269	64,186	153,976	154,757	248,277	9,194	21	15,517	121,667
Illinois.....	7,965	38,591	7,151	14,222	33,313	81,644	83,118	130,669	2,569	9	7,279	66,961
South Atlantic.....	8,448	40,750	7,362	15,143	33,595	83,863	83,770	134,287	2,668	15	7,540	55,861
West Virginia.....	4,941	24,717	4,319	8,637	20,704	50,307	49,791	82,234	1,067	8	5,173	42,388
West South Central.....	3,141	13,473	2,757	5,476	11,097	30,911	31,713	50,020	2,051	10	2,546	21,564
Pacific.....	6,307	35,480	5,525	11,303	29,486	75,496	75,591	121,010	4,956	15	5,686	53,215

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF GLASS CONTAINERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Glass Containers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3221---	Glass containers, total.....	.....	xxx	xxx	842,611	xxx	xxx	628,916
	Domestic shipments, machine made:							
	Narrow neck:							
3221011	Food.....	Thousand gross....	52,467	15,253	106,682	46,800	12,745	74,337
3221013	Medicinal and health supplies.....	.....do.....		16,102	62,120		14,629	51,436
3221015	Chemical, household and industrial.....	.....do.....		9,604	70,171		9,276	55,458
3221017	Toiletries and cosmetics.....	.....do.....		9,834	34,932		8,918	26,670
3221019	Beverage, returnable.....	.....do.....		8,952	8,608		7,163	6,304
3221021	Beverage, nonreturnable.....	.....do.....		1,372	1,334		1,087	963
3221023	Beer, returnable.....	.....do.....		3,218	2,693		2,125	12,929
3221025	Beer, nonreturnable.....	.....do.....		8,772	8,604		7,739	34,906
3221027	Liquor.....	.....do.....		9,983	9,454		8,709	62,990
3221029	Wine.....	.....do.....		4,706	4,485		4,242	32,817
	Widemouth:							
3221030	Food, including fruit jars and jelly glasses.....	.....do.....	52,734	42,212	216,190	42,870	33,150	144,994
3221032	Medicinal and health supplies.....	.....do.....		4,628	18,829		4,648	16,166
3221033	Chemical, household and industrial.....	.....do.....		1,855	9,013		1,855	8,175
3221034	Toiletries and cosmetics.....	.....do.....		2,962	11,873		1,863	7,462
3221036	Packer's tumblers.....	.....do.....		695	4,417		1,951	9,148
3221037	Dairy products.....	.....do.....		1,961	1,923		2,778	25,476
3221062	Export shipments, machine made (all types)...	.....do.....	xxx	2,897	13,214	xxx	2,779	12,164
3221071	Net weight of machine-made glass containers packed.....	Thousand pounds....	xxx	10,789,356	xxx	xxx	9,930,469	xxx
3221000	Hand made, domestic and export shipments shipments (all types) and glass containers not specified by kind ¹	Thousand gross.....	(NA)	(NA)	3,315	18	18	1,737

NA Not available

xxx Not applicable

¹Not directly comparable, includes hand made, domestic and export shipments only for 1954. Includes mostly glass containers not specified by kind for 1958.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -32A-2

PRESSED AND BLOWN GLASSWARE, N.E.C., INDUSTRY

(Industry Code 3229—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Pressed and Blown Glassware, Not Elsewhere Classified, Industry shipped products valued at \$449 million, an increase of 8 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 12 percent from 1954 to 1958 to a total of 36,8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$315 million in 1958, an increase of 7 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PRESSED AND BLOWN GLASSWARE, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3229)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	36.8	41.9	-12
Payroll.....	Million dollars...	170.3	158.6	+7
Production workers:				
Number.....	Thousands.....	30.2	35.0	-14
Man-hours.....	Millions.....	58.5	66.7	-12
Wages.....	Million dollars...	131.1	121.8	+8
Value added by manufacture, unadjusted ².....	..do.....	318.3	297.2	+7
Value added by manufacture, adjusted ³.....	..do.....	315.3	294.2	+7
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	129.5	117.8	+10
Value of shipments ⁵.....	..do.....	449.2	416.0	+8
Capital expenditures, new.....	..do.....	11.2	10.9	+3
Number of establishments with 20 or more employees ⁶	Number.....	94	128	-27

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Pressed and Blown Glassware, N.E.C., Industry includes establishments engaged primarily in the manufacture of pressed and blown glass and glassware, n.e.c., including machine-made or hand-made glass tableware; glass blanks for electric light bulbs, light shades and reflectors, and other lighting glassware. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Pressed and Blown Glassware, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Pressed and Blown Glassware, N.E.C., Industry amounted to \$449 million. Of this total, \$437 million were products primary to the industry, \$7 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98 percent of the total manufactured

product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$446 million of pressed and blown glassware, n.e.c., were shipped by all producers of these products. Of this total, \$437 million, or 98 percent, were shipped by plants classified in Industry 3229, Pressed and Blown Glassware, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.—GENERAL STATISTICS FOR THE PRESSED AND BLOWN GLASSWARE, N.E.C., INDUSTRY (S.I.C. CODE 3229) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	36,819	170,345	30,231	58,526	131,092	318,254	315,323	449,249	11,238	94	41,924	297,221
Middle Atlantic.....	13,423	67,264	10,178	20,247	46,947	98,709	97,350	141,583	4,353	25	16,962	118,530
Pennsylvania.....	5,474	24,281	4,790	9,032	19,934	45,253	44,125	63,648	1,185	17	7,041	41,889
East North Central.....	12,396	57,807	10,420	20,043	46,076	125,536	125,845	178,116	2,772	29	13,628	108,781
Indiana.....	832	3,898	670	1,649	3,031	6,017	6,642	9,357	280	3	404	9,617
Illinois.....	305	1,051	287	490	898	1,405	1,416	3,832	28	4	541	2,738
South.....	9,453	38,282	8,405	15,749	32,667	73,943	73,185	102,560	3,720	34	8,967	52,830

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PRESSED AND BLOWN GLASSWARE, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Pressed and Blown Glassware, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958		1954		
			Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3229—	Pressed and blown glassware, n.e.c., total ¹.....	.....	xxx	445,946	xxx	xxx	416,997
	Table, kitchen, art and novelty glassware:						
	Machine-made (including glassware made by machine with automatic and semi-automatic feeds):						
3229015	Tumblers, goblets, and other stemware.....	1,000 dozen.....	57,820	53,192	66,948	68,216	43,523
3229018	Tableware (designed for serving food and drink; excluding tumblers, goblets, and other stemware).....	...do.....	23,297	27,401	26,387	22,751	24,113
3229021	Kitchenware (designed for preparing and storing food in homes and commercial establishments; excluding cooking ware).....	...do.....	5,313	8,989	6,910	6,184	8,886
3229024	Ornamental, decorative, and novelty glassware; and smokers' accessories.....	...do.....	6,038	8,733	8,099	7,518	7,062
	Hand-made:						
	Pressed ware:						
3229031	Tumblers, goblets, and other stemware.....	1,000 dozen.....	368	2,344	232	234	1,783
3229032	Tableware (excluding tumblers, goblets, and other stemware).....	...do.....	459	6,194	840	845	7,685
3229033	Ornamental, decorative, and novelty glassware; and smokers' accessories.....	.....	xxx	5,275	xxx	xxx	3,501
	Blown ware:						
3229034	Tumblers.....	1,000 dozen.....	492	2,064	599	513	1,458
3229035	Goblets and other stemware.....	...do.....	1,016	7,468	1,292	1,269	7,948
3229036	Ornamental, decorative, and novelty glassware; and smokers' accessories (including ornamental tableware).....	.....	xxx	5,662	xxx	xxx	4,084
	Cooking ware (heat-resistant, heat-treated, and annealed):						
3229037	Hand- and machine-made coffee and beverage makers, complete units only (excluding tea kettles).....	1,000 pieces.....	4,259	6,408	64,540	63,811	13,434
3229038	Machine-made custard cups, cake and bread bakery, casseroles and pie plates.....	...do.....	52,195	12,041			
3229039	Other machine-made and hand-made cooking ware (including top-of-stove ware).....	...do.....	xxx	5,803			

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF PRESSED AND BLOWN GLASSWARE, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	1958		1954		
			Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
	Pressed and blown glassware, n.e.c., --Continued.						
	Lighting glassware:						
3229045	Bowls, all types.....		xxx	3,068	xxx	xxx	2,230
3229046	Enclosing globes, all types.....		xxx	3,200	xxx	xxx	3,865
3229047	Shades, reflectors, and torchiers.....		xxx	3,782	xxx	xxx	4,448
3229048	Lantern globes (oil and electric).....	1,000 dozen.....	232	803	323	326	801
3229049	Lamp chimneys.....	..do.....	712	1,196	984	1,010	1,274
3229051	Lamp parts.....		xxx	3,689	xxx	xxx	3,567
3229052	Railroad, marine, and traffic lighting glassware.....		xxx	1,957	xxx	xxx	2,409
3229053	Electrical discharge tubing (including fluorescent and neon).....		xxx	9,321	468,110	478,277	8,540
3229054	Electric-light bulb blanks, electronic-tube blanks (including radio, x-ray, radar, and special tubes), television-tube blanks and parts, and tubing, cane and other glass parts for electronic tubes and devices.....		xxx	102,107	xxx	xxx	115,001
3229055	Shield and plates for fluorescent lighting fixtures.....		xxx	592	xxx	xxx	1,290
3229056	Other interior and exterior lighting glass (including oil founts and prisms).....		xxx	5,661	xxx	xxx	6,566
3229073	Other pressed and blown glassware, including technical and scientific glassware, glass blocks, and lens blanks (except containers):						
	Technical and scientific glassware:						
3229077	Tubing and cane for electric light bulbs.....	1,000 pounds.....	xxx	6,703	27,839	27,947	5,497
3229078	Tubing (excluding fluorescent and neon); rods and cane, all types (except electrical).....	..do.....	16,363	6,203	12,488	11,588	4,481
3229079	Insulators, all types.....	..do.....	9,734	983	11,236	15,523	1,507
3229081	Scientific and laboratory glassware.....		xxx	24,405	xxx	xxx	23,785
3229082	All other technical glassware (except electronic tube blanks).....		xxx	2,804	xxx	xxx	932
3229083	Industrial glassware, including gauge glass, instrument faces, machine parts, glass knobs, meter covers, pumps, battery jars, etc.....		xxx	13,574	xxx	xxx	16,369
3229084	Optical instrument lens blanks.....		xxx	1,450	xxx	xxx	2,126
3229085	All other pressed and blown glassware:						
	Machine-made (including glass blocks; sun-glass lenses and other eye protective lenses, Christmas tree ornaments; stationers' ware; marbles; nursery bottles; lantern and searchlight lenses; automotive lenses, including sealed beam; ophthalmic lens blanks, etc.).....		xxx	39,573	xxx	xxx	50,300
3229086	Hand-made (including kitchenware other than cooking ware, stationers' ware, and nursery bottles).....		xxx	1,259	xxx	xxx	1,218
	Glass fiber, including yarn, roving, strand, mat, etc. (except for insulation use):						
3229092	For textile and other uses, except insulation.....	1,000 pounds.....	113,484	59,670	xxx	58,700	33,985
3229098	Other pressed and blown glassware, not elsewhere classified.....		xxx	2,372	xxx	xxx	3,328

xxx Not applicable.

¹Product detail, except shipments of glass fiber, from Facts For Industry Series M32E-08, "Pressed and blown glassware (except glass containers)."²Includes products made from glass produced in the same establishments and from purchased glass.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32A-3

FLAT GLASS INDUSTRY

(Industry Code 3211—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Flat Glass Industry shipped products valued at \$385 million, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 14 percent from 1954 to 1958 to a total of 21.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$263 million in 1958, an increase of 6 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE FLAT GLASS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3211)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.2	24.6	-14
Payroll.....	Million dollars...	133.6	132.5	+1
Production workers:				
Number.....	Thousands.....	17.6	21.4	-18
Man-hours.....	Millions.....	35.9	44.3	-19
Wages.....	Million dollars...	110.7	115.0	-4
Value added by manufacture, unadjusted ²	do.....	269.1	252.3	+7
Value added by manufacture, adjusted ³	do.....	263.0	247.2	+6
Cost of materials, fuel, electricity, and contract work ⁴	do.....	115.2	119.6	-4
Value of shipments ⁵	do.....	384.8	372.7	+3
Capital expenditures, new.....	do.....	12.1	31.0	-61
Number of establishments with 20 or more employees ⁶	Number.....	31	30	3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Flat Glass Industry includes establishments engaged primarily in the manufacture of flat glass, including plate glass, clear window glass, rolled glass, figured and wire glass, opalescent and obscured glass, spectacle glass, and cathedral and skylight glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in Industry 3231, Products of Purchased Glass. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The total value of shipments and other receipts of establishments classified in the Flat Glass Industry amounted to \$385 million. This included shipments of primary products (flat and laminated glass), shipments of secondary products, and miscellaneous receipts.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE FLAT GLASS INDUSTRY (S.I.C. CODE 3211) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	21,181	133,567	17,627	35,871	110,687	269,051	262,999	384,755	12,065	31	24,559	252,313
Middle Atlantic.....	4,450	28,153	3,573	7,441	22,299	54,023	50,184	78,328	2,385	7	7,877	85,058
Pennsylvania.....	4,450	28,153	3,573	7,441	22,299	54,023	50,184	78,328	2,385	7	7,877	85,058
North Central.....	8,766	56,306	7,524	15,229	47,675	127,450	124,802	178,769	5,759	10	9,518	107,286
South and West.....	7,965	49,108	6,530	13,201	40,713	87,578	88,013	127,658	3,923	14	7,164	59,968
West Virginia.....	2,851	18,079	2,405	4,658	15,780	27,723	27,904	59,693	2,085	5	3,617	50,013

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF FLAT GLASS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Flat Glass Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958				1954				
			Total production	Total shipments including inter-plant transfers		Transfers to other plants of the same company		Total shipments including inter-plant transfers		Transfers to other plants of the same company	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3211---	Flat glass, total ¹.....	.....	xxx	xxx	547,617	xxx	xxx	xxx	499,267	xxx	xxx
32111--	Sheet (window) glass (not rolled including colored, total.....	1,000 boxes 50 sq. ft. each single strength or equivalent	18,177	17,911	92,339	xxx	(D)	xxx	99,124	xxx	xxx
	Uncolored:										
3211111	Thin, including picture glass	...do.....	303	313	1,460	xxx	xxx	421	1,691	(D)	(D)
3211112	Single strength.....	...do.....	8,563	8,231	38,144	xxx	xxx	11,260	48,772	1,967	8,497
3211113	Double strength, including greenhouse.....	...do.....	4,679	4,725	26,046	xxx	xxx	4,380	28,066	709	3,644
3211114	Heavy sheet.....	...do.....	3,907	3,945	21,262	xxx	xxx	1,720	20,595	102	811
3211115	Tinted or colored (all thicknesses).....	...do.....	725	697	5,427	xxx	xxx	(2)	(2)	(2)	(2)
3211200	Plate glass, total.....	1,000 sq.ft.	521,338	339,414	145,355	xxx	(D)	{ xxx	(4)	xxx	(4)
3211311	Rolled ⁵ and wire glass, total.....	...do.....						{ 68,332	20,136	809	135
3211398	Other flat glass (except laminated), such as plate glass blanks, bent and tempered glass, glass doors, multiple-sealed insulating units, etc., from glass made in the same establishment.....	...do.....	xxx	78,129	56,094	28,851	9,379	xxx	143,788	xxx	43,098
	Laminated glass, including safety glass, total ⁷.....	.....	xxx	xxx	253,829	xxx	xxx	xxx	236,219	xxx	xxx
3211353	Laminated plate 1/4" and under..	1,000 sq.ft.	xxx	115,633	216,696	xxx	xxx	109,446	177,553	xxx	xxx
3211361											
3211355	Laminated plate over 1/4".....	...do.....	xxx								
3211363											
3211357	Laminated sheet (window) glass..	...do.....	xxx	xxx	37,133	xxx	xxx	{ 65,342	52,012	xxx	xxx
3211365											
3211359	Other laminated glass.....	...do.....	xxx					{ xxx	6,654	xxx	xxx
3211369											

D Withheld to avoid disclosing figures for industry companies.

NA Not available.

xxx Not applicable.

¹Includes laminated glass (product codes 3211353-3211359, 3211361-3211369).

²Not reported separately as such, included in figures for uncolored sheet glass.

³Significant differences between figures from 1958 Census of Manufactures and that previously published as part of Facts for Industry Series BGSF-375 "Flat Glass" for 1958 due to conceptual differences in reporting.

⁴Included in other glass glass (except laminated), product code 3211398.

⁵Includes glass of which one or both surfaces are roughed, figured, ribbed or otherwise impressed.

⁶Represents rolled glass only.

⁷Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231) combined to avoid disclosing figures for individual companies.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32A-4

PRODUCTS OF PURCHASED GLASS INDUSTRY

(Industry Code 3231--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Products of Purchased Glass Industry shipped products valued at \$442 million, an increase of 14 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 3 percent from 1954 to 1958 to a total of 22.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$228 million in 1958, an increase of 18 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR PRODUCTS OF PURCHASED GLASS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3231)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	22.2	21.6	+3
Payroll.....	Million dollars...	101.9	87.5	+17
Production workers:				
Number.....	Thousands.....	18.4	18.2	+1
Man-hours.....	Millions.....	36.2	36.4	-1
Wages.....	Million dollars...	77.4	68.3	+13
Value added by manufacture, unadjusted ².....	..do.....	225.7	192.6	+17
Value added by manufacture, adjusted ³.....	..do.....	228.2	193.3	+18
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	213.3	190.4	+12
Value of shipments ⁵.....	..do.....	441.5	386.7	+14
Capital expenditures, new.....	..do.....	16.0	5.6	+186
Number of establishments with 20 or more employees ⁶	Number.....	224	182	+23

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

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For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Products of Purchased Glass Industry includes establishments engaged primarily in the manufacture of glass products from purchased glass, including laminated or safety glass, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass; round glass; cut, beveled and etched glass; and glass watch crystals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Products of Purchased Glass Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Glass Products of Purchased Glass Industry amounted to \$442 million. Of this total, \$412 million were products primary to the industry, \$5 million were products primary to other industries, and \$25 million were receipts

for miscellaneous activities. The industry shipments of primary products represented 99 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR PRODUCTS OF PURCHASED GLASS (S.I.C. CODE 3231) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	22,218	101,938	18,355	36,192	77,447	225,720	228,229	441,503	15,982	224	21,614	192,644
New England.....	1,117	4,889	882	1,731	3,419	9,373	9,251	15,346	358	10	942	4,422
Connecticut.....	597	2,670	482	942	1,933	4,980	4,997	8,270	248	7	700	3,508
Middle Atlantic.....	8,203	34,130	6,848	13,417	25,832	67,037	66,889	128,496	3,572	92	7,370	45,458
New York.....	3,743	15,480	3,111	6,216	11,877	28,092	29,588	47,720	2,512	40	3,296	18,837
New Jersey.....	1,774	6,782	1,531	3,012	5,234	11,332	12,147	21,729	471	27	1,148	6,591
Pennsylvania.....	2,686	11,868	2,206	4,189	8,721	27,613	25,154	59,047	589	25	2,925	20,028
East North Central.....	8,199	45,765	6,709	13,437	35,679	118,689	120,281	225,187	9,654	59	8,662	117,674
Illinois.....	2,966	17,314	2,502	5,146	13,964	43,929	44,342	81,163	5,680	22	2,816	40,724
Michigan.....	1,012	4,924	764	1,444	3,167	10,508	11,111	26,153	579	9	800	6,141
West North Central.....	338	1,616	241	471	1,019	2,585	3,015	5,954	85	5	552	4,384
South Atlantic.....	2,508	8,304	2,153	4,180	6,118	15,580	15,820	41,226	1,228	29	2,226	11,054
Virginia.....	585	1,842	532	1,114	1,375	4,324	4,321	12,574	302	7	586	3,498
West Virginia.....	320	1,075	273	478	807	1,375	1,394	2,810	45	5	392	1,651
North Carolina.....	833	2,784	727	1,396	2,073	5,387	5,288	15,344	204	7	812	3,519

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF PRODUCTS OF PURCHASED GLASS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Products of Purchased Glass Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 sq. ft.)	Value (\$1,000)	Quantity (1,000 sq. ft.)	Value (\$1,000)
3231---	Products of purchased glass, except laminated, total.....	xxx	262,880	xxx	239,810
32312--	Mirrors, total.....	xxx	87,982	xxx	68,867
3231211	Mirrors - framed, decorated and undecorated:				
	Plate glass:				
	Quantity reported.....	27,053	24,737	11,323	16,236
	Quantity not reported.....			xxx	6,459
3231251	Other glass:				
	Quantity reported.....	(NA)	5,371	4,722	3,619
	Quantity not reported.....			xxx	1,655
3231261	Mirrors - unframed, decorated and undecorated:				
	Plate glass:				
	Quantity reported.....	(NA)	24,666	21,371	22,106
	Quantity not reported.....			xxx	5,343
3231263	Other glass:				
	Quantity reported.....	(NA)	11,222	10,519	4,214
	Quantity not reported.....			xxx	3,111
3231298	Automobile rearview mirrors.....	xxx	14,616	(¹)	(¹)
3231200	Mirrors, not specified by kind.....	xxx	5,778	xxx	6,124
3231351	Other products of purchased glass, total.....	xxx	142,553	xxx	170,943
	Watch crystals.....	xxx	746	xxx	1,840
	Glassware, etched, ornamented, bent, etc.:				
	Table, kitchen, art, and novelty glassware:				
3231331	Tumblers, goblets and other stemware.....	xxx	12,052	xxx	14,022
3231335	Tableware, except tumblers, goblets, and other stemware.	xxx	6,299		
3231339	All other glassware, except flat glass products (including technical and scientific).....	xxx	44,101		
3231398	Other glass products (except laminated) such as stained and leaded glass, automobile glass other than safety (cut, beveled and polished) beveled and polished plate glass bent plate and sheet glass, etc.....	xxx	79,355	xxx	155,081
3231000	Products of purchased glass, not specified by kind.....	xxx	233,937		
	Laminated glass, including safety glass, total ³	xxx	253,829	xxx	236,219
3211353	Laminated plate 1/4" and under.....	115,633	216,696	109,446	177,553
3231361					
3211355					
3231363	Laminated plate over 1/4".....				
3211357	Laminated sheet (window) glass.....			65,342	52,012
3231365	Other laminated glass.....	xxx	37,133	xxx	6,654
3211359					
3231369					

NA Not available.

xxx Not applicable.

¹An indeterminate amount of automobile rearview mirrors was reported in product codes 3231211-3231263 in 1954.

²Includes \$14,459 thousand reported by small establishments that were not requested to report breakdown of shipments by specific product.

³Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231). Combined to avoid disclosing figures of individual companies.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32B-1

FLOOR AND WALL TILE (CERAMIC) INDUSTRY

(Industry Code 3253—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Floor and Wall Tile (Ceramic) Industry shipped products valued at \$130 million, an increase of 30 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 11 percent from 1954 to 1958 to a total of 12.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$88 million in 1958, an increase of 23 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE FLOOR AND WALL TILE (CERAMIC) INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3253)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	12.5	11.3	+11
Payroll.....	Million dollars...	51.4	43.5	+18
Production workers:				
Number.....	Thousands.....	10.4	9.6	+8
Man-hours.....	Millions.....	20.8	19.7	+6
Wages.....	Million dollars...	39.7	33.7	+18
Value added by manufacture, unadjusted ².....	..do.....	86.0	70.6	+22
Value added by manufacture, adjusted ³.....	..do.....	88.2	71.5	+23
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	43.5	29.1	+50
Value of shipments ⁵.....	..do.....	130.3	100.0	+30
Capital expenditures, new.....	..do.....	3.1	4.6	-33
Number of establishments with 20 or more employees ⁶	Number.....	58	40	+45

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Floor and Wall Tile (Ceramic) Industry includes establishments engaged primarily in the manufacture of glazed and unglazed floor and wall tile and accessories, except quarry tile. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Floor and Wall Tile (Ceramic) Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Floor and Wall Tile (Ceramic) Industry amounted to \$130 million. Of this total, \$116 million were products primary to the industry, \$9 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$117 million of floor and wall tile (ceramic) were shipped by all producers of these products. Of this total, \$116 million, or 99 percent, were shipped by plants classified in Industry 3253, Floor and Wall Tile (Ceramic), while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE FLOOR AND WALL TILE (CERAMIC) INDUSTRY (S.I.C. CODE 3253) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	12,482	51,350	10,387	20,805	39,693	86,040	88,159	130,300	3,091	58	11,265	70,606
Northeast.....	2,799	12,908	2,350	4,802	9,755	22,588	22,844	33,069	1,398	12	2,610	18,482
New Jersey.....	728	3,117	632	1,181	2,591	4,709	4,731	7,716	143	4	712	4,554
North Central.....	4,379	18,217	3,409	6,879	13,215	23,903	24,875	37,120	487	11	3,974	23,011
South.....	2,893	9,902	2,512	5,042	7,792	17,830	19,317	30,086	702	20	1,673	8,326
Texas.....	1,204	3,759	1,040	2,098	2,747	6,646	7,516	12,668	153	10	674	3,601
West.....	2,411	10,323	2,116	4,082	8,931	21,719	21,123	30,025	504	15	3,007	20,787
California.....	2,300	9,921	2,019	3,879	8,617	21,133	20,477	29,087	426	12	3,007	20,787

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF FLOOR AND WALL TILE (CERAMIC) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Floor and Wall Tile Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (1,000) sq.ft.	Total shipments including interplant transfers		Total production (1,000) sq. ft.	Total shipments including interplant transfers	
			Quantity (1,000 sq.ft.)	Value (\$1,000)		Quantity (1,000 sq.ft.)	Value (\$1,000)
3253—	Clay floor and wall tile, total ¹	xxx	xxx	117,243	xxx	xxx	88,520
3253011	Glazed floor and wall tile and accessories.....	166,065	164,805	95,549	127,655	128,480	71,351
3253051	Unglazed floor and wall tile and accessories, except quarry tile ²	33,325	32,316	17,722	36,450	34,993	17,169
3253000	Clay floor and wall tile, not specified by kind.....	xxx	xxx	3,972	xxx	xxx	...

xxx Not applicable.

¹Statistics on production and shipments of clay construction products were collected for 1958 on a monthly basis and published in the Facts for Industry Series M32D.

²Quarry tile shipments of 4,238 in 1958 included in products for Industry 3259, "Structural Clay Products, Not Elsewhere Classified."

DEPARTMENT OF COMMERCE
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OFFICIAL BUSINESS

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32B-2

SEWER PIPE INDUSTRY

(Industry Code 3254—system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Sewer Pipe Industry shipped products valued at \$97 million, an increase of 25 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employemnt in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 10 thousand employees in 1958. Value added by manufacture in the industry amounted to \$66 million in 1958, an increase of 19 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SEWER PIPE INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3254)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	10.0	9.6	+4
Payroll.....	Million dollars...	40.1	35.4	+13
Production workers:				
Number.....	Thousands.....	8.7	8.7	...
Man-hours.....	Millions.....	16.0	17.2	-7
Wages.....	Million dollars...	32.3	29.6	+9
Value added by manufacture, unadjusted ².....	..do.....	68.2	55.3	+23
Value added by manufacture, adjusted ³.....	..do.....	66.4	55.9	+19
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	27.7	22.3	+24
Value of shipments ⁵.....	..do.....	97.1	77.9	+25
Capital expenditures, new.....	..do.....	5.0	3.1	+61
Number of establishments with 20 or more employees ⁶	Number.....	67	64	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Sewer Pipe Industry includes establishments engaged primarily in the manufacture of sewer pipe made of clay. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Sewer Pipe Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Sewer Pipe Industry amounted \$97 million. Of this total, \$83 million were products primary to the industry \$9 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$87 million of sewer pipe were shipped by all producers of these products. Of this total, \$83 million, or 95 percent, were shipped by plants classified in Industry 3254, Sewer Pipe, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SEWER PIPE INDUSTRY (S.I.C. CODE 3254) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,969	40,130	8,708	15,970	32,290	68,238	66,359	97,090	4,992	67	9,637	55,293
Middle Atlantic.....	894	3,452	841	1,469	3,074	5,243	5,292	7,079	258	6	989	4,563
Pennsylvania.....	894	3,452	841	1,469	3,074	5,243	5,292	7,079	258	6	989	4,563
East North Central.....	4,394	18,309	3,949	6,983	15,390	25,598	25,765	38,519	1,880	29	4,562	22,594
Ohio.....	3,515	14,392	3,159	5,399	12,086	18,947	19,435	28,687	1,469	23	3,604	17,762
West North Central.....	826	3,665	718	1,499	2,931	6,487	6,559	9,183	497	6	898	5,979
South.....	2,614	8,740	2,147	4,192	6,108	15,704	15,826	22,140	1,626	15	2,008	9,960
West.....	1,241	5,964	1,053	1,827	4,787	15,206	14,917	20,169	731	11	1,179	12,195

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SEWER PIPE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Sewer Pipe Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity (short tons)	Value (\$1,000)		Quantity (short tons)	Value (\$1,000)
3254011	Vitrified clay sewer pipe and fittings.....	1,629,109	1,723,503	86,912	1,763,057	1,702,867	70,878

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32B-3

BRICK AND HOLLOW TILE INDUSTRY

(Industry Code 3251--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Brick And Hollow Tile Industry shipped products valued at \$289 million, an increase of 10 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 3 percent from 1954 to 1958 to a total of 31.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$198 million in 1958, an increase of 8 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE BRICK AND HOLLOW TILE INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3251)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	31.3	32.4	-3
Payroll.....	Million dollars...	124.1	114.7	+8
Production workers:				
Number.....	Thousands.....	27.2	28.8	-6
Man-hours.....	Millions.....	55.8	61.0	-9
Wages.....	Million dollars...	98.3	93.1	+6
Value added by manufacture, unadjusted ²	do.....	197.3	183.3	+8
Value added by manufacture, adjusted ³	do.....	197.9	184.0	+8
Cost of materials, fuel, electricity, and contract work ⁴	do.....	90.1	77.4	+16
Value of shipments ⁵	do.....	289.1	262.6	+10
Capital expenditures, new.....	do.....	14.8	16.2	-9
Number of establishments with 20 or more employees ⁶	Number.....	431	459	-6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Include value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Brick and Hollow Tile Industry includes establishments engaged primarily in the manufacture of clay building brick, vitrified paving brick, and hollow structural tile. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in The Brick and Hollow Tile Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Brick and Hollow Tile Industry amounted to \$289 million. Of this total, \$266 million were products primary to the industry, \$11 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 96 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$270 million of Brick and Hollow Tile were shipped by all producers of these products. Of this total, \$266 million, or 98 percent, were shipped by plants classified in Industry 3251, Brick and Hollow Tile, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE BRICK AND HOLLOW TILE INDUSTRY (S.I.C. CODE 3251) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	31,346	124,122	27,178	55,816	98,264	197,321	197,927	289,095	14,758	431	32,426	183,312
New England.....	730	3,075	606	1,294	2,415	4,173	4,179	6,376	417	14	883	4,292
Middle Atlantic.....	4,661	21,874	4,072	8,225	18,029	33,754	34,182	47,312	1,997	66	5,065	31,745
Pennsylvania.....	2,876	13,512	2,522	5,000	11,158	21,405	21,979	30,218	1,373	42	2,917	19,651
East North Central....	7,666	34,928	6,643	13,158	28,472	53,381	53,673	77,250	3,117	96	8,282	55,067
Ohio.....	4,066	19,169	3,580	7,108	15,922	30,751	31,092	44,399	2,315	50	4,312	29,951
Indiana.....	1,651	6,778	1,380	2,678	5,270	9,270	9,281	13,869	432	22	1,630	9,028
Illinois.....	1,669	7,898	1,444	2,962	6,339	12,217	12,291	17,371	347	22	2,003	14,086
West North Central....	1,623	6,442	1,328	2,866	4,699	11,327	11,084	16,560	955	35	1,912	10,767
Iowa.....	633	2,378	488	961	1,616	4,741	4,514	6,871	166	13	730	3,875
Kansas.....	400	1,585	356	846	1,291	2,715	2,652	3,570	262	9	361	2,234
South Atlantic.....	5,775	19,368	4,903	10,382	13,954	32,840	32,063	50,118	2,055	72	6,187	30,293
Maryland.....	525	2,135	445	938	1,562	3,529	3,576	5,636	161	8	624	3,561
West Virginia.....	306	1,280	252	449	963	1,697	1,596	2,547	145	5	432	2,047
Georgia.....	1,487	4,479	1,280	2,633	3,178	7,097	6,923	9,598	512	8	1,505	6,615
East South Central....	3,055	9,444	2,826	5,290	8,089	16,983	17,332	24,435	1,500	40	2,786	12,359
Tennessee.....	810	2,296	751	1,250	2,065	4,521	4,931	5,992	46	6	765	2,876
Alabama.....	1,202	4,114	1,126	2,236	3,569	6,831	6,838	10,445	395	14	1,120	5,648
West South Central....	4,570	14,198	4,085	8,867	11,395	22,794	23,045	32,595	2,163	61	4,005	17,878
Louisiana.....	446	1,316	410	838	1,068	1,832	1,943	2,789	127	7	451	1,663
Oklahoma.....	517	1,612	450	952	1,258	2,964	3,053	4,383	66	10	443	2,758
Mountain.....	1,672	7,374	1,381	3,134	5,630	11,163	11,243	17,486	737	20	1,492	8,884
Colorado.....	812	3,708	661	1,350	2,678	6,168	6,142	9,498	412	6	779	5,268
Utah.....	397	1,803	345	829	1,515	2,535	2,591	4,061	109	4	312	1,850
Pacific.....	1,594	7,419	1,334	2,600	5,581	10,906	11,115	16,963	1,817	27	1,811	12,023
California.....	1,137	5,523	961	1,920	4,173	8,267	8,413	12,464	956	19	1,193	7,839

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF BRICK AND HOLLOW TILE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Brick and Hollow Tile Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3251---	Brick and hollow tile, total.....	.....	xxx	xxx	269,608	xxx	xxx	242,918
	Brick (except ceramic glazed brick and refractory brick):							
3251011	Building or common, and face (2 1/4" x 3 5/8" x 7 5/8" equivalent) ¹	Thousand brick....	6,291,220	6,218,969	210,536	6,720,360	6,657,009	193,434
3251019	Other brick (paving, floor and sewer) (2 1/4" x 3 5/8" x 7 5/8" equivalent).....	...do.....	82,608	77,891	3,344	65,654	54,614	2,673
3251031	Structural clay tile, except facing (including load-bearing and non-load-bearing tile, silo tile, corner tile, structural floor tile, etc.) ¹	Short tons.....	571,352	548,946	9,007	981,452	907,808	12,725
	Facing tile (structural) and ceramic glazed brick							
3251051	Ceramic glazed facing tile and ceramic glazed brick ¹	Thousand brick equivalent.....	425,874	399,107	31,508	407,998	394,607	25,868
3251059	Unglazed and salt glazed facing tile 8" x 5" x 12" equivalent) ¹	Thousand tile.....	16,483	15,783	2,743	24,371	23,127	3,915
3251000	Brick and hollow tile, not specified by kind....	.....	xxx	xxx	12,470	xxx	xxx	4,303

xxx Not applicable

¹Monthly figures available in the Facts for Industry Series M32D, "Clay Construction Products."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32B-4

CLAY REFRACTORIES INDUSTRY

(Industry Code 3255--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Clay Refractories Industry shipped products valued at \$169 million, an increase of 23 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 12.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$111 million in 1958, an increase of 29 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE CLAY REFRACTORIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3255)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	12.3	14.5	-15
Payroll.....	Million dollars...	59.4	55.6	+7
Production workers:				
Number.....	Thousands.....	10.0	12.2	-18
Man-hours.....	Millions.....	18.5	22.8	-19
Wages.....	Million dollars...	44.5	43.0	+4
Value added by manufacture, unadjusted ².....	..do.....	112.1	86.3	+29
Value added by manufacture, adjusted ³.....	..do.....	111.1	86.0	+29
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	56.2	50.0	+12
Value of shipments ⁵.....	..do.....	169.2	136.7	+23
Capital expenditures, new.....	..do.....	8.0	5.7	+40
Number of establishments with 20 or more employees ⁶	Number.....	115	133	-14

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Clay Refractories Industry includes establishments engaged primarily in the manufacture of fire brick, crucibles, and other heat resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Clay Refractories Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Clay Refractories Industry amounted to \$169 million. Of this total, \$151 million were products primary to the industry, \$11 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figures, appearing in table 3, indicates that \$158 million of clay refractories were shipped by all producers of these products. Of this total, \$151 million, or 95 percent, were shipped by plants classified in Industry 3255, Clay Refractories, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE CLAY REFRACTORIES INDUSTRY (S.I.C. CODE 3255) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	12,297	59,369	10,026	18,460	44,530	104,893	103,858	162,048	8,005	115	14,463	88,753
Northeast.....	3,432	16,571	2,899	5,058	12,888	26,149	26,311	41,996	1,866	39	4,199	25,089
Pennsylvania.....	3,236	15,606	2,744	4,734	12,188	24,156	24,219	39,191	1,838	35	3,814	22,637
East North Central.....	2,591	11,961	2,087	3,747	8,768	20,014	19,642	29,627	1,389	37	3,250	17,968
Ohio.....	2,033	8,804	1,682	2,979	6,984	14,716	14,697	21,689	1,189	29	2,592	14,063
Illinois.....	492	2,880	350	655	1,568	4,533	4,548	6,918	134	6	524	3,132
West North Central.....	3,187	17,106	2,422	4,797	11,982	32,455	32,891	48,996	3,118	11	3,844	25,756
Missouri.....	3,187	17,106	2,422	4,797	11,982	32,455	32,891	48,996	3,118	11	3,844	25,756
South.....	2,432	10,852	2,107	3,890	8,797	19,348	18,006	30,352	1,149	20	2,403	13,969
Kentucky.....	625	2,679	571	917	2,352	4,474	4,614	7,119	169	5	771	4,319
Mountain.....	4	1,494	317	574	1,175	2,393	2,612	3,515	218	374	336	1,766
Pacific.....	281	1,385	194	394	920	4,534	4,396	7,562	265	4	428	4,205

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF CLAY REFRACTORY PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Clay Refractories Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3255---	Clay refractories, total ¹.....	.....	xxx	158,241	xxx	*129,086
3255011	Fireclay brick, standard and special shapes, except superduty....	Thousand 9" equiv.	320,034	56,526	411,311	*51,205
3255015	Superduty fireclay brick and shapes.....	..do.....	60,163	15,375	59,178	*11,891
3255021	High alumina brick and shapes (50% Al ₂ O ₃ and over) made substantially of calcined diaspore or bauxite ².....	..do.....	17,395	7,464	16,150	*5,151
3255025	Insulating fire brick and shapes.....	..do.....	38,600	9,386	40,066	*7,647
3255031	Ladle brick.....	..do.....	167,654	17,024	160,321	*12,915
3255041	Sleeves, nozzles, runner brick and tuyeres.....	..do.....	34,390	7,448	42,467	*6,993
3255045	Glass-house pots, tank blocks, feeder parts, and upper structure shapes used only for glass tanks ²	Short tons.....	14,534	3,598	13,522	*2,716
3255047	Hot top refractories.....	..do.....	6,689	3,975	8,626	4,537
3255049	Clay kiln furniture, radiant heater elements, potters' supplies and other miscellaneous shaped refractory items.....	..do.....	xxx	4,808	xxx	*6,688
3255098	Other clay refractory materials sold in lump or ground form ³.....	..do.....	211,856	4,608	xxx	*6,688
3255053	Refractory bonding mortars air-setting (wet and dry types) ⁴.....	..do.....	73,571	6,864	*86,519	*8,123
3255057	Refractory bonding mortars, except air-setting types ⁴.....	..do.....	6,499	678		
3255061	Plastic refractories and ramming mixes ².....	..do.....	104,189	9,030	92,613	5,125
3255065	Castable refractories (hydraulic setting).....	..do.....	91,812	9,077	*70,511	*6,095
3255069	Insulating castable refractories (hydraulic setting).....	..do.....	19,746	2,380		

xxx Not applicable.

*Revised.

¹Excludes data for ground crude fire clay, high alumina clay, and silica fire clay. These products are included in industry 3295, Inerals: ground or treated; representing \$4,646 thousand of product code 3295298.

²Excludes data for mullite or extra-high alumina refractories. These products are included with mullite and extra-high alumina brick and shapes in industry 3297, Nonclay Refractories.

³Includes data for calcined clay, ground brick, and siliceous and other gunning mixes.

⁴Includes data for bonding mortars which contain up to 60 percent Al₂O₃, dry basis. Bonding mortars which contain more than 60 percent Al₂O₃, dry basis are included in industry 3297, Nonclay Refractories.

Source: Product information for 1958 taken from current survey Facts for Industry Series M52C-08, Refractories, Summary for 1958.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-32B-5

CEMENT, HYDRAULIC INDUSTRY

(Industry Code 3241—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Cement, Hydraulic Industry shipped products valued at \$1,073 million, an increase of 30 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 3 percent from 1954 to 1958 to a total of 41.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$723 million in 1958, an increase of 37 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE CEMENT, HYDRAULIC INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3241)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	41.1	39.8	+3
Payroll.....	Million dollars...	214.3	167.7	+28
Production workers:				
Number.....	Thousands.....	34.8	34.0	+2
Man-hours.....	Millions.....	69.6	70.8	-2
Wages.....	Million dollars...	170.2	134.8	+26
Value added by manufacture, unadjusted ².....	..do.....	716.2	528.9	+35
Value added by manufacture, adjusted ³.....	..do.....	722.8	525.7	+37
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	356.1	285.4	+25
Value of shipments ⁵.....	..do.....	1,073.3	814.9	+30
Capital expenditures, new.....	..do.....	100.7	73.0	+38
Number of establishments with 20 or more employees ⁶	Number.....	170	160	+6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Cement, Hydraulic Industry include establishments engaged primarily in the manufacture of hydraulic cement, including portland, natural, masonry, and puzzolan cements. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Cement, Hydraulic Industry consisted not only of products (including containers) described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Cement, Hydraulic Industry amounted to \$1,073 million. Of this total, \$1,060 million were products primary to the industry, \$6 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 99 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 99 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should

be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,063 million of cement, hydraulic were shipped by all producers of these products. Of this total, \$1,060 million, or almost 100 percent, were shipped by plants classified in Industry 3241, Cement, Hydraulic, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE CEMENT, HYDRAULIC INDUSTRY (S. I. C. CODE 3241) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	41,139	214,321	34,786	69,586	170,193	716,231	722,855	1,073,342	100,693	170	39,769	528,920
Northeast.....	9,214	48,115	7,913	15,642	38,737	137,692	141,549	211,271	19,350	39	9,315	110,174
Pennsylvania.....	6,455	33,923	5,501	10,773	27,041	100,117	102,144	149,769	12,284	26	6,641	80,729
East North Central....	9,061	46,769	7,616	15,166	37,822	149,393	152,846	224,205	18,466	29	8,230	106,706
Ohio.....	2,360	13,010	2,001	4,114	10,518	35,547	36,814	54,534	6,094	10	2,173	24,259
Indiana.....	2,514	13,033	2,167	4,254	10,543	35,645	37,473	58,273	4,569	5	2,238	28,895
Michigan.....	2,620	12,731	2,021	3,927	9,636	48,756	48,947	69,816	5,885	8	2,336	32,349
West North Central....	4,996	25,090	4,352	8,543	20,579	100,345	99,395	138,370	14,744	20	5,430	70,970
Iowa.....	1,423	7,113	1,291	2,604	6,202	29,417	29,452	42,965	5,675	5	1,519	19,860
Missouri.....	1,504	7,464	1,293	2,449	6,025	30,333	30,600	41,518	4,423	5	1,716	21,066
Kansas.....	1,307	6,555	1,104	2,203	5,108	24,732	24,489	31,638	2,617	7	1,425	19,401
South Atlantic.....	3,198	14,823	2,840	5,465	12,558	54,328	54,908	85,960	10,830	16	2,923	38,109
East South Central....	3,144	15,911	2,623	5,225	12,050	54,670	54,525	85,851	8,540	17	3,228	44,747
Alabama.....	1,607	8,136	1,317	2,652	6,103	29,030	29,049	47,477	5,187	9	1,645	23,374
West South Central....	4,203	21,366	3,468	7,331	16,029	88,234	88,578	120,128	15,023	19	4,026	64,262
Texas.....	2,703	13,992	2,204	4,633	10,226	61,752	62,139	82,350	5,540	13	2,602	44,966
Mountain.....	1,527	7,970	1,276	2,492	6,430	32,761	32,827	45,838	932	8	1,400	23,176
Pacific.....	5,796	34,277	4,698	9,722	25,988	98,808	98,227	161,719	12,808	22	5,215	70,773
California.....	4,742	28,152	3,817	7,935	21,019	86,593	86,386	136,150	12,263	13	3,993	58,355

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF CEMENT, HYDRAULIC SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Cement, Hydraulic Industry but also establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (1,000 bbls. of 376 lbs.)	Total shipments including interplant transfers		Total production (1,000 bbls. of 376 lbs.)	Total shipments including interplant transfers	
			Quantity (1,000 bbls. of 376 lbs.)	Value (\$1,000)		Quantity (1,000 bbls. of 376 lbs.)	Value (\$1,000)
3241—	Cement, hydraulic, total.....	xxx	xxx	1,063,055	xxx	xxx	807,338
3241011	Portland cement.....	303,992	304,704	979,084	xxx	264,162	724,285
3241031	Prepared or mixed hydraulic and masonry cements other than special portlands.....	15,248	15,691	56,526	xxx	¹ 12,557 ² 13,681	42,668 12,979
3241051	Natural, masonry-natural, and puzzolan cements.....	xxx	xxx	24,393	xxx	xxx	27,406
9513241	Cost of containers for above cements and mortars.....	xxx	xxx	3,052	xxx	xxx	...
3241000	Cement, hydraulic, not specified by kind.....	xxx	xxx		xxx	xxx	

xxx Not applicable.

¹Converted from thousand barrels of 280 pounds. In 1954, shipments of prepared or mixed hydraulic and masonry cements (other than special portlands) totaled 16,862 thousand barrels of 280 pounds; total quantity of shipments of natural, masonry, and puzzolan cements was 4,943 thousand barrels of 280 pounds.

USCOMM—DC

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P) -32C-1

PORCELAIN ELECTRICAL SUPPLIES INDUSTRY

(Industry Code 3264—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Porcelain Electrical Supplies Industry shipped products valued at \$97 million, an increase of 17 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 9.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$66 million in 1958, an increase of 22 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PORCELAIN ELECTRICAL SUPPLIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3264)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.1	9.6	-5
Payroll.....	Million dollars...	42.4	37.7	+12
Production workers:				
Number.....	Thousands.....	7.5	8.0	-6
Man-hours.....	Millions.....	14.8	15.8	-6
Wages.....	Million dollars...	31.3	28.6	+9
Value added by manufacture, unadjusted ².....	...do.....	65.6	54.7	+20
Value added by manufacture, adjusted ³.....	...do.....	66.1	54.3	+22
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	31.0	27.8	+12
Value of shipments ⁵.....	...do.....	97.5	83.2	+17
Capital expenditures, new.....	...do.....	4.3	5.4	-20
Number of establishments with 20 or more employees ⁶	Number.....	44	37	+19

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Porcelain Electrical Supplies Industry includes establishments engaged primarily in the manufacture of porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain and other electrical supplies from clay and other ceramic materials. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Porcelain Electrical Supplies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Porcelain Electrical Supplies Industry amounted to \$97 million. Of this total, \$85 million were products primary to the industry, \$7 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (pri-

mary and secondary). The 1954 ratio was 94 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$90 million of porcelain electrical supplies were shipped by all producers of these products. Of this total, \$85 million, or 94 percent, were shipped by plants classified in Industry 3264, Porcelain Electrical Supplies, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE PORCELAIN ELECTRICAL SUPPLIES INDUSTRY (S.I.C. CODE 3264) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958								1954			
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,107	42,362	7,489	14,787	31,342	65,570	66,057	97,475	4,279	44	9,550	54,675
Northeast.....	3,396	15,760	2,808	5,637	11,734	23,637	24,190	35,847	2,122	21	3,861	22,264
New York.....	1,160	6,149	949	1,850	4,513	10,750	11,039	17,397	492	3	1,329	9,028
East North Central.....	3,208	15,325	2,676	5,101	11,560	23,759	23,944	34,008	1,292	13	3,079	18,382
Ohio.....	1,692	7,978	1,387	2,579	5,907	14,910	14,929	22,000	880	9	1,345	10,246

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF PORCELAIN ELECTRICAL SUPPLIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Porcelain Electrical Supplies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3264---	Porcelain electrical supplies, total.....	189,822	183,928
	Porcelain electrical products:		
3264011	High voltage porcelain products (wet process porcelain) including integral hardware parts.....	49,754	39,371
3264021	All standard dry process electrical porcelain, including cleats, knobs, tubes, outlet and switch box covers, etc.....	4,090	3,621
3264031	All special dry process electrical porcelain, including porcelain parts for wiring devices, fuses, circuit breakers, radio receiving sets, spark plugs, etc., and electrical refractory porcelain.....	6,751	23,408
3264041	Steatite electrical products.....	8,603	8,930
3264098	Other ceramic electrical products, including alumina, ferrite (except for electronic applications), titanate, etc., electrical products.....	19,542	8,598
3264000	Porcelain electrical supplies, not specified by kind.....	1,082	

¹An undetermined amount of metal fittings that are an integral part of insulators are included in the value of shipments of porcelain electrical supplies.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32C-2

VITREOUS PLUMBING FIXTURES INDUSTRY

(Industry Code 3261—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Vitreous Plumbing Fixtures Industry shipped products valued at \$143 million, an increase of 11 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 5 percent from 1954 to 1958 to a total of 9.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$88 million in 1958, an increase of 17 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE VITREOUS PLUMBING FIXTURES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3261)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.7	9.2	+5
Payroll.....	Million dollars...	49.6	40.5	+22
Production workers:				
Number.....	Thousands.....	8.1	7.8	+4
Man-hours.....	Millions.....	15.6	15.7	-1
Wages.....	Million dollars...	39.6	33.0	+20
Value added by manufacture, unadjusted ².....	..do.....	89.1	76.7	+16
Value added by manufacture, adjusted ³.....	..do.....	88.3	75.5	+17
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	51.8	50.2	+3
Value of shipments ⁵.....	..do.....	142.7	128.2	+11
Capital expenditures, new.....	..do.....	1.6	1.1	+46
Number of establishments with 20 or more employees ⁶	Number.....	43	33	+30

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 35

GROUP 33

The Vitreous Plumbing Fixtures Industry includes establishments engaged primarily in the manufacture of vitreous and semi-vitreous pottery plumbing fixtures and accessories including bathroom and toilet fixtures, closet bowls, flush tanks, lavatories and stalls, bathtubs, laundry trays, shower receptors, sinks, sink and laundry tray combination, urinals, and plumbing fittings such as towel racks, soap cups and accessories. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Vitreous Plumbing Fixtures Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Vitreous Plumbing Fixtures Industry amounted to \$143 million. Of this total, \$127 million were products primary to the industry, \$4 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of

primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 99 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$131 million of vitreous plumbing fixtures were shipped by all producers of these products. Of this total, \$127 million, or 97 percent, were shipped by plants classified in Industry 3261, Vitreous Plumbing Fixtures, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.--GENERAL STATISTICS FOR THE VITREOUS PLUMBING FIXTURES INDUSTRY (S.I.C. CODE 3261) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,677	49,568	8,111	15,644	39,580	890,099	88,295	142,683	1,613	43	9,200	76,740
Middle Atlantic.....	3,392	16,692	2,807	5,203	13,829	30,125	29,805	47,090	406	14	4,195	32,453
North Central.....	3,693	19,663	3,145	6,136	15,080	33,784	33,172	56,461	533	14	3,035	24,150
Indiana.....	830	3,986	736	1,370	3,269	7,405	7,378	13,946	178	5	641	6,556
South and West.....	2,339	12,184	1,973	3,953	9,925	24,214	23,447	37,410	416	14	1,970	20,137

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF VITREOUS PLUMBING FIXTURES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Vitreous Plumbing Fixtures Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number)	Value (\$1,000)	Quantity (number)	Value (\$1,000)
3261---	Vitreous and semivitreous plumbing fixtures and accessories, total..	xxx	130,517	xxx	116,560
3261011	Vitreous and semivitreous (earthenware) plumbing fixtures:				
	Total as reported in the Census of Manufactures.....	xxx	¹ 119,226	xxx	111,729
3261014	Total as reported on Census quarterly form M54E ²	xxx	³ 124,553	xxx	³ 107,259
3261016	Drinking fountains.....	68,978	xxx	65,540	xxx
	Lavatories.....	2,179,082	xxx	1,698,412	xxx
	Water closet bowls:				
3261018	Syphon jet.....	484,436	xxx	463,634	xxx
3261020	Washdown.....	1,809,978	xxx	1,726,415	xxx
3261022	Reverse trap.....	1,937,223	xxx	1,595,977	xxx
3261024	Flush tanks.....	3,601,842	xxx	3,330,392	xxx
3261026	Urinals.....	157,186	xxx	131,383	xxx
3261051	China and earthenware plumbing fixture accessories and fittings (including towel racks, soap cups, etc.).....	xxx	10,527	xxx	4,831
3261000	Vitreous and semivitreous plumbing fixture, not specified by kind.....	xxx	764	xxx	xxx

xxx Not applicable.

¹Not directly comparable to value of shipments of vitreous and semivitreous (earthenware) plumbing fixtures reported on the Census quarterly form M54E, because of reporting differences (i.e., value of shipments reported on current survey excluded allowance for cash discounts).

²The quantity data for vitreous plumbing fixtures were obtained from the Census quarterly survey M54E in 1958, and M51H in 1954, as revised. No separate quantity data for vitreous and semivitreous sinks, laundry trays, sink and laundry tray combinations, and other plumbing fixtures are available since these items were combined with similar items made of other materials in the quarterly survey.

³Represents vitreous-china only. In addition, shipments valued at \$2,236,000 in 1958 and \$2,577,000 in 1954, were reported for plumbing fixtures made of earthenware, concrete, and composition.

USCOMM--DC

GROUP 35

GROUP 33

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32C-3

VITREOUS-CHINA FOOD UTENSILS INDUSTRY

(Industry Code 3262--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Vitreous-China Food Utensils Industry shipped products valued at \$52 million, an increase of 18 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 11 percent from 1954 to 1958 to a total of 7.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$42 million in 1958, an increase of 19 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE VITREOUS-CHINA FOOD UTENSILS INDUSTRY IN THE UNITED STATES: 1958 and 1954

(Standard Industrial Classification Code 3262)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.6	8.5	-11
Payroll.....	Million dollars...	30.2	27.5	+10
Production workers:				
Number.....	Thousands.....	6.4	7.5	-15
Man-hours.....	Millions.....	11.8	13.7	-14
Wages.....	Million dollars...	22.1	22.1	...
Value added by manufacture, unadjusted ².....	...do.....	42.4	35.5	+19
Value added by manufacture, adjusted ³.....	...do.....	42.4	35.7	+19
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	9.2	8.4	+10
Value of shipments ⁵.....	...do.....	51.9	44.1	+18
Capital expenditures, new.....	...do.....	1.0	1.3	-23
Number of establishments with 20 or more employees ⁶	Number.....	24	29	-17

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 35

GROUP 33

The Vitreous-China Food Utensils Industry includes establishments engaged primarily in the manufacture of vitreous-china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Vitreous-China Food Utensils Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries) and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Vitreous-China Food Utensils Industry amounted to \$52 million. Of this total, \$49 million were products primary to the industry, \$2 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$51 million of vitreous-china food utensils were shipped by all producers of these products. Of this total, \$49 million, or 96 percent, were shipped by plants classified in Industry 3262, Vitreous-China Food Utensils, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE VITREOUS-CHINA FOOD UTENSILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,640	30,211	6,385	11,789	22,068	42,373	42,432	51,885	960	24	8,451	35,489
Middle Atlantic.....	4,745	20,455	3,899	7,655	14,346	28,299	28,115	34,279	619	10	5,365	24,287
New York.....	2,015	8,813	1,690	3,396	6,443	11,997	12,259	15,171	398	4	2,022	9,334
East North Central.....	1,913	6,375	1,783	2,894	5,474	9,512	9,529	11,929	250	6	2,090	7,271

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF VITREOUS-CHINA FOOD UTENSILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Vitreous-China Food Utensils Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 doz. pcs.)	Value (\$1,000)	Quantity (1,000 doz. pcs.)	Value (\$1,000)
3262---	Vitreous-China food utensils, total.....	xxx	50,795	xxx	*43,295
	Tableware (for serving food and drink):				
	Household:				
3262013	Dinnerware.....	1,109	19,818	*1,165	*14,752
3262015	Other (including casual and teaware).....	119	1,056		
3262018	Hotel or commercial.....	494	27,393	(NA)	28,543
3262052	Kitchenware, household and commercial (for cooking, preparing and storing food and drink).....	307	2,353		
3262000	Vitreous-china food utensils, not specified by kind.....	xxx	195	xxx	...

*Revised per M52H-07, Vitreous-China and Earthenware Table and Kitchen Articles, 1957, 1956 and 1954.

xxx Not applicable.

NA Not available.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32C-4

EARTHENWARE FOOD UTENSILS INDUSTRY

(Industry Code 3263--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Earthenware Food Utensils Industry shipped products valued at \$49 million, a decrease of 29 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 37 percent from 1954 to 1958 to a total of 8.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$34 million in 1958, a decrease of 31 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE EARTHENWARE FOOD UTENSILS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3263)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.6	13.6	-37
Payroll.....	Million dollars...	27.8	39.4	-29
Production workers:				
Number.....	Thousands.....	7.8	12.6	-38
Man-hours.....	Millions.....	12.1	19.8	-39
Wages.....	Million dollars...	23.9	33.0	-28
Value added by manufacture, unadjusted ².....	..do.....	34.9	50.4	-31
Value added by manufacture, adjusted ³.....	..do.....	34.2	49.3	-31
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	13.6	17.5	-22
Value of shipments ⁵.....	..do.....	48.5	68.0	-29
Capital expenditures, new.....	..do.....	0.5	0.5	...
Number of establishments with 20 or more employees ⁶	Number.....	26	36	-28

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 35

GROUP 35

The Earthenware Food Utensils Industry includes establishments engaged primarily in the manufacture of fine (semivitreous) type of earthenware table and kitchen articles for preparing, serving, or storing food or drink. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Earthenware Food Utensils Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Earthenware Food Utensils Industry amounted to \$49 million. Of this total, \$47 million were products primary to the industry, \$1 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$52 million of Earthenware Food Utensils were shipped by all producers of these products. Of this total, \$47 million, or 90 percent, were shipped by plants classified in Industry 3463, Earthenware Food Utensils, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE EARTHENWARE FOOD UTENSILS INDUSTRY (S.I.C. CODE 3263), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	8,555	27,812	7,790	12,120	23,864	34,868	34,170	48,517	517	26	13,588	50,446
Northeast.....	728	2,537	653	1,088	2,256	3,234	3,086	5,127	15	6	903	2,935
North Central.....	3,886	13,354	3,524	5,995	11,357	17,410	17,395	23,547	301	11	6,068	24,276
Ohio.....	3,074	10,316	2,798	4,679	8,958	13,201	13,074	18,373	195	9	4,478	16,850
South.....	3,397	10,030	3,183	4,287	8,877	11,166	10,710	16,075	188	5	5,352	16,312
Pacific.....	541	1,895	427	739	1,378	3,015	2,939	3,716	13	4	1,264	6,923
California.....	541	1,895	427	739	1,378	3,015	2,939	3,716	13	4	1,264	6,923

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF EARTHENWARE FOOD UTENSILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Earthenware Food Utensils Industry, but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 dozen pieces)	Value (\$1,000)	Quantity (1,000 dozen pieces)	Value (\$1,000)
3263---	Earthenware (semivitreous) food utensils, total.....	xxx	51,848	xxx	71,706
3263012	Tableware, household and commercial (for serving food and drink)..	16,484	46,895	32,485	66,250
3263052	Kitchenware, household and commercial (for cooking, preparing, and storing food and drink).....	1,513	3,655	4,685	5,456
3263000	Earthenware (semivitreous) food utensils, not specified by kind...	xxx	1,298	xxx	...

xxx Not applicable.

GROUP 35

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-32D-1

GYPSUM PRODUCTS INDUSTRY

(Industry Code 3272--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Gypsum Products Industry shipped products valued at \$362 million, an increase of 23 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 11.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$219 million in 1958, an increase of 33 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE GYPSUM PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3272)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.4	11.0	+4
Payroll.....	Million dollars...	57.5	48.6	+18
Production workers:				
Number.....	Thousands.....	9.4	9.3	+1
Man-hours.....	Millions.....	20.6	21.9	-6
Wages.....	Million dollars...	45.2	39.7	+14
Value added by manufacture, unadjusted ²	do.....	217.2	161.9	+34
Value added by manufacture, adjusted ³	do.....	219.5	165.3	+33
Cost of materials, fuel, electricity, and contract work ⁴	do.....	142.6	130.3	+9
Value of shipments ⁵	do.....	362.4	295.6	+23
Capital expenditures, new.....	do.....	9.2	10.2	-10
Number of establishments with 20 or more employees ⁶	Number.....	62	56	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 35

The Gypsum Products Industry includes establishments engaged primarily in the manufacture of plaster, plaster board, and other products composed wholly or chiefly of gypsum. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Gypsum Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Gypsum Products Industry amounted to \$362 million. Of this total, \$339 million were products primary to the industry, \$11 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$347 million of Gypsum Products were shipped by all producers of these products. Of this total, \$339 million, or 98 percent, were shipped by plants classified in Industry 3272, Gypsum Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE GYPSUM PRODUCTS INDUSTRY (S.I.C. CODE 3272), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	11,419	57,454	9,404	20,557	45,167	217,189	219,514	362,398	9,240	62	10,966	161,898
Middle Atlantic.....	2,350	12,345	1,945	4,128	9,914	39,669	39,534	67,016	1,596	10	2,616	35,065
New York.....	1,831	9,684	1,523	3,193	7,834	30,160	30,197	50,318	1,111	7	2,150	28,792
East North Central.....	2,058	10,477	1,711	3,698	8,263	38,162	39,045	64,025	1,893	12	1,769	21,669
West North Central.....	1,322	6,473	1,106	2,445	5,249	28,882	29,167	41,862	1,066	6	1,382	22,664
South.....	3,025	14,284	2,519	5,633	11,278	64,996	66,027	107,490	1,417	14	2,669	47,174
Texas.....	1,135	5,375	946	2,087	4,278	26,570	26,824	42,434	593	6	1,160	24,229
Mountain.....	974	5,204	797	1,807	4,042	17,466	17,607	30,250	874	8	911	12,486
Pacific.....	1,197	6,282	957	2,067	4,753	21,426	21,464	39,264	918	8	1,179	17,094

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF GYPSUM PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Gypsum Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 tons)	Value (\$1,000)	Quantity (1,000 tons)	Value (\$1,000)
3272----	Gypsum products, total.....	xxx	346,664	xxx	274,519
3272011	Calcined gypsum products:				
	Industrial plasters.....	288	6,454	284	5,750
	Building plasters and prefabricated building materials: ¹				
3272000	Other gypsum products and gypsum products, not specified by kind.	xxx	3,461	xxx	1,809

xxx Not applicable.

¹Detailed product statistics have been developed by Bureau of Mines and are available as a chapter (Gypsum) from Volume 1, "Minerals Year Book, 1958."

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32D-2

LIME INDUSTRY

(Industry Code 3274--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Lime Industry shipped products valued at \$131 million, an increase of 16 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 10 percent from 1954 to 1958 to a total of 7.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$73 million in 1958, an increase of 27 percent from 1954 when the previous census was taken. Value added

is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE LIME INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3274)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.2	8.0	-10
Payroll.....	Million dollars...	32.9	30.6	+8
Production workers:				
Number.....	Thousands.....	6.1	6.8	-10
Man-hours.....	Millions.....	12.8	14.5	-12
Wages.....	Million dollars...	25.7	24.5	+5
Value added by manufacture, unadjusted ².....	...do.....	73.2	57.4	+28
Value added by manufacture, adjusted ³.....	...do.....	73.4	58.0	+27
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	58.0	55.0	+5
Value of shipments ⁵.....	...do.....	131.4	112.9	+16
Capital expenditures, new.....	...do.....	6.3	4.8	+31.3
Number of establishments with 20 or more employees ⁶	Number.....	77	81	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 35

GROUP 33

The Lime Industry includes establishments engaged primarily in the manufacture of quicklime, hydrated lime, and dead-burned dolomite from limestone, dolomite, shells, or other substances. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Lime Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Lime Industry amounted to \$131 million. Of this total, \$106 million were products primary to the industry, \$20 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$114 million of Lime were shipped by all producers of these products. Of this total, \$106 million, or 95 percent, were shipped by plants classified in Industry 3274, Lime, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE LIME INDUSTRY (S.I.C. CODE 3274) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,213	32,878	6,127	12,787	25,700	73,285	73,459	131,384	6,320	77	7,989	57,383
Northeast.....	1,470	7,149	1,189	2,601	5,353	11,983	11,920	22,180	961	13	1,888	11,536
Pennsylvania.....	1,080	5,201	872	1,890	3,932	10,081	10,116	18,300	534	7	1,429	8,773
East North Central.....	2,211	10,700	1,841	3,774	7,985	27,280	27,286	49,490	1,267	23	2,621	23,859
West North Central.....	1,286	5,962	1,126	2,381	4,904	12,900	13,029	21,422	1,253	9	1,190	8,439
South.....	1,637	5,953	1,431	2,928	4,812	13,728	13,714	24,816	1,272	23	1,690	10,050
Mountain.....	290	1,473	258	529	1,225	2,808	2,778	5,469	1,176	5	319	1,710
Pacific.....	319	1,641	282	574	1,366	3,215	3,361	5,826	411	4	279	1,786

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF LIME SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Lime Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Products	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(1,000 tons)	(1,000 tons)	(\$1,000)	(1,000 tons)	(1,000 tons)	(\$1,000)
3274---	Lime, total.....	xxx	xxx	114,226	xxx	xxx	93,941
3274011	Quicklime ¹	(NA)	4,703	46,845	xxx	3,642	239,355
3274051	Hydrated lime ¹	2,080	1,935	28,484	xxx	1,805	22,328
3274071	Dead-burned dolomite.....	1,848	1,874	30,818	xxx	1,803	25,505
3274098	Other lime.....	(NA)	xxx	1,503	xxx	xxx	677
3274000	Lime, not specified by kind.....	xxx	xxx	3,459	xxx	xxx	2,299
9513274	Cost of containers for lime products.....	xxx	xxx	3,117	xxx	xxx	3,777

NA Not available.

xxx Not applicable.

¹1958 Data include production and shipments wherever made.

²Data include shipments only by establishments classified in manufacturing industries; 1954 shipments of these products by establishments classified in the Minerals Industries areas follows: quicklime, 167 thousand tons valued at \$2,464 thousand; hydrated lime, 68 thousand tons valued at \$855 thousand.

USCOMM--DC

GROUP 34

GROUP 35

GROUP 33

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32D-3

CONCRETE PRODUCTS INDUSTRY

(Industry Code 3271—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Concrete Products Industry shipped products valued at \$1,153 million, an increase of 42 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 16 percent from 1954 to 1958 to a total of 70.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$590 million in 1958, an increase of 41 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE CONCRETE PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3271)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	70.1	60.4	+16
Payroll.....	Million dollars...	302.9	217.0	+40
Production workers:				
Number.....	Thousands.....	53.5	46.7	+15
Man-hours.....	Millions.....	112.8	96.7	+17
Wages.....	Million dollars...	206.0	146.1	+41
Value added by manufacture, unadjusted ².....	..do.....	569.5	396.3	+43
Value added by manufacture, adjusted ³.....	..do.....	590.1	418.7	+41
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	566.7	399.6	+42
Value of shipments ⁵.....	..do.....	1,153.2	813.2	+42
Capital expenditures, new.....	..do.....	67.0	40.5	+65
Number of establishments with 20 or more employees ⁶	Number.....	967	774	+25

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 34

GROUP 35

GROUP 33

The Concrete Products Industry includes establishments engaged primarily in the manufacture of concrete building blocks and shapes, pile and conduit, and similar products such as poles, piling, septic tanks, garbage boxes, garden furniture, incinerators and vaults made from a combination of stone or gravel, sand, and cement. Contractors engaged in concrete construction work are classified in the construction industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Concrete Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Concrete Products Industry amounted to \$1,153 million. Of this total, \$997 million were products primary to the industry, \$33 million were products primary to other industries, and \$123 million were receipts for miscellaneous activities. The industry shipments of primary products

represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 99 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,052 million of concrete products were shipped by all producers of these products. Of this total, \$997 million, or 95 percent, were shipped by plants classified in Industry 3271, Concrete Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc.. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE CONCRETE PRODUCTS INDUSTRY (S.I.C. 3271) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	70,150	302,949	53,511	112,756	205,987	569,493	590,102	1,153,195	67,040	967	60,410	396,344
New England.....	2,699	13,095	2,028	4,466	8,822	23,692	24,247	47,150	2,369	35	2,237	16,025
Massachusetts.....	1,188	5,658	921	2,048	4,068	10,463	10,946	21,064	1,105	15	1,081	7,689
Middle Atlantic.....	11,408	51,762	8,509	18,175	35,282	97,517	100,307	197,025	12,072	167	10,153	72,212
New York.....	3,967	18,602	3,079	6,528	13,336	34,361	35,071	67,875	3,926	65	3,369	24,116
New Jersey.....	3,096	14,707	2,012	4,368	8,439	29,735	30,557	59,700	1,806	41	2,722	22,885
Pennsylvania.....	4,345	18,453	3,418	7,279	13,507	33,421	34,679	69,450	6,340	61	4,062	25,209
East North Central.....	14,795	74,199	11,253	24,194	49,591	130,979	138,018	267,384	16,035	175	13,573	98,840
Ohio.....	4,445	22,196	3,414	7,328	14,862	36,553	38,530	75,301	4,127	52	4,157	28,747
Indiana.....	2,320	10,426	1,690	3,596	6,519	15,744	17,634	35,181	2,610	21	2,109	13,288
Illinois.....	3,134	16,580	2,478	5,327	11,920	32,810	32,975	61,911	3,956	45	2,247	18,825
Michigan.....	3,169	15,580	2,391	5,216	10,249	29,194	31,001	61,187	3,189	36	3,449	25,270
Wisconsin.....	1,727	9,417	1,280	2,927	6,041	16,678	17,878	33,804	2,153	21	1,610	12,708
West North Central.....	6,224	25,757	4,882	10,107	17,362	51,299	53,044	101,617	7,886	82	6,101	41,187
Minnesota.....	1,970	8,742	1,561	3,246	5,938	18,133	18,326	33,956	2,120	27	1,981	12,169
Iowa.....	1,182	5,092	931	2,042	3,495	9,605	9,776	19,000	1,416	15	1,237	8,208
Missouri.....	1,312	5,392	985	1,945	3,492	9,270	10,022	19,178	2,412	19	1,176	7,442
Nebraska.....	648	1,992	525	1,049	1,238	4,160	4,380	8,912	395	6	599	5,401
South Atlantic.....	14,910	53,481	11,447	24,345	36,246	100,810	106,341	220,433	12,509	240	11,964	65,761
Maryland.....	1,384	5,709	1,097	2,211	3,882	12,759	13,240	26,008	2,098	19	1,082	7,617
Virginia.....	1,976	7,408	1,552	3,153	4,915	14,465	14,726	31,622	1,271	37	1,827	10,400
West Virginia.....	612	2,212	451	871	1,510	3,648	3,807	8,376	533	6	668	3,111
South Carolina.....	873	2,666	684	1,323	1,847	6,353	6,495	12,516	586	16	884	4,679
East South Central.....	4,329	14,216	3,391	6,440	9,693	33,134	33,767	62,383	3,830	61	3,945	23,036
Kentucky.....	703	2,614	570	1,093	1,861	5,215	5,542	11,387	533	7	697	3,986
Tennessee.....	1,625	5,144	1,294	2,413	3,421	12,120	11,890	21,464	1,358	19	1,456	8,379
Alabama.....	1,459	4,841	1,100	2,071	3,164	10,647	10,976	20,257	1,508	25	1,365	7,769
Mississippi.....	542	1,617	427	863	1,247	5,152	5,359	9,275	431	10	426	2,901
West South Central.....	5,656	20,308	4,433	8,916	14,019	41,052	42,166	82,236	4,718	78	4,269	24,230
Louisiana.....	1,058	3,667	901	1,765	2,866	7,451	8,069	14,972	768	12	966	4,723
Texas.....	3,748	13,865	2,847	5,812	9,073	27,061	27,529	55,603	3,342	55	2,567	15,142
Mountain.....	2,923	12,990	2,249	4,740	9,295	23,591	24,482	44,979	3,025	45	2,076	12,649
Colorado.....	745	3,164	576	1,199	2,254	4,950	5,079	10,432	972	11	416	2,746
Arizona.....	534	2,818	411	908	1,968	5,332	5,370	9,654	560	6	533	3,035
Utah.....	596	2,598	471	969	1,983	4,366	4,791	8,006	326	9	401	2,440
Pacific.....	7,206	37,141	5,319	11,373	25,677	67,419	67,730	129,988	4,596	84	6,088	42,399
California.....	5,189	26,398	3,791	8,117	18,279	49,568	49,891	92,387	3,451	63	4,499	32,446

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

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Table 3.--QUANTITY AND VALUE OF CONCRETE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Concrete Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3271---	Concrete products, total.....	.....	xxx	1,052,385	xxx	xxx
32711--	Concrete block and brick.....	.....	xxx	385,004	xxx	341,882
	Block:					
3271111	Light-weight aggregate (cinder, expanded slag, etc.).....	Thousand block.... (8"x8"x16" equiv.)	925,379	209,857	955,584	174,204
3271115	Heavy-weight aggregate.....	..do.....	1,700,272	145,420	651,530	116,406
3271151	Brick:					
	Quantity reported.....	Thousand brick....	287,917	8,844	320,273	10,254
	Quantity not reported.....	.....	xxx	2,697	xxx	xxx
3271100	Block and brick, not specified by kind.....	..do.....	xxx	18,186	234,500	41,018
32712--	Concrete pipe.....	.....	xxx	295,803	xxx	184,316
3271211	Culvert pipe.....	Thousand tons....	3,707	105,633	2,274	54,790
	Sewer pipe:					
3271221	Reinforced.....	..do.....	2,447	72,258	1,366	38,594
3271225	Nonreinforced.....	..do.....	871,909	23,339	1,228	30,383
3271231	Pressure pipe.....	..do.....	1,909	64,929	727	39,316
3271241	Irrigation pipe:					
	Quantity reported.....	..do.....	357	7,414	377	6,224
	Quantity not reported.....	.....	xxx	2,567	xxx	1,714
3271298	Other concrete pipe (such as tile and conduits).....	.....	(NA)	17,034	xxx	13,295
32713--	Other concrete products.....	.....	xxx	291,341	xxx	151,225
	Roof and floor units:					
3271311	Slabs and tile.....	Thousand sq. ft....	(NA)	52,786	74,814	29,503
3271315	Joists and beams.....	Thousand lin. ft..	(NA)	31,341	(NA)	5,351
3271321	Cast stone (products for architectural purposes such as window sills, lintels, ashlar, coping, posts, ornamental columns, interior facings, and other trim).....	.....	xxx	23,315	xxx	19,727
	Burial vaults and boxes:					
3271333	Vaults.....	Number.....	688,326	41,569	581,005	28,449
3271335	Boxes.....	..do.....	136,013	3,799	xxx	6,408
3271341	Silo stoves.....	..do.....	(NA)	6,349	xxx	3,722
3271351	Laundry trays.....	..do.....	307,859	3,116	358,936	...
3271398	Other products (such as piling, posts, and pales, crossing slabs, garden furniture, storage and septic tanks, catch basin covers, shower receptors, gravestones, and prefabricated housing units).....	.....	xxx	104,792	xxx	58,065
3271300	Other concrete products, not specified by kind.....	.....	xxx	24,274	xxx	...
3271000	Concrete products, not specified by kind.....	.....	xxx	80,237	xxx	...

¹Some establishments (principally those with less than 6 employees), in reporting their shipments of concrete block did not specify the type. It is estimated that over 70 percent of this figure is heavy-weight aggregate block.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32D-4

READY-MIXED CONCRETE INDUSTRY

(Industry Code 3273--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Ready-Mixed Concrete Industry shipped products valued at \$1,658 million, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a total of 60.9 thousand employees. Value added by manufacture in the industry amounted to \$659 million. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas.

The Ready-Mixed Concrete Industry includes establishments engaged primarily in manufacturing Portland cement, concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sales of central mixed concrete, shrink mixed concrete and transit mixed concrete. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

The Ready-Mixed Concrete Industry is included for the first time in the Census of Manufactures for 1958. No comparable figures are available for 1954.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures when available for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Ready-Mixed Concrete Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

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and other receipts of establishments classified in the Ready-Mixed Concrete Industry amounted to \$1,658 million. Of this total, \$1,421 million were products primary to the industry, \$94 million were products primary to other industries, and \$143 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary).

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,462 million of ready-mixed concrete were shipped by all producers of these products. Of this total, \$1,421 million, or 97 percent, were shipped by plants classified in Industry 3273, Ready-Mixed Concrete, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 1.--GENERAL STATISTICS FOR THE READY-MIXED CONCRETE INDUSTRY (S.I.C. 3273) BY REGIONS AND STATES: 1958

Region and State ¹	1958									
	All employees		Production workers ⁶			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³			
United States, total.....	60,890	298,242	43,592	89,753	199,948	638,161	659,312	1,658,049	73,127	930
New England.....	2,407	13,108	1,755	3,927	8,822	32,399	32,477	67,600	2,512	44
Maine.....	265	1,005	215	424	702	1,977	1,977	4,476	158	5
Massachusetts.....	1,056	6,455	693	1,674	3,998	17,755	17,852	35,043	1,193	23
Connecticut.....	807	4,234	654	1,333	3,047	9,645	9,645	20,129	819	12
Middle Atlantic.....	8,198	43,701	5,841	12,000	29,300	93,008	95,133	227,267	9,576	120
New York.....	3,123	18,193	2,233	4,248	11,772	35,267	36,609	89,904	3,548	42
New Jersey.....	1,942	10,430	1,395	3,151	7,322	22,915	22,927	51,726	2,143	29
Pennsylvania.....	3,133	15,078	2,213	4,601	10,206	34,826	35,597	85,637	3,885	49
East North Central.....	12,213	68,095	8,534	17,897	44,117	137,145	145,197	377,131	14,986	200
Ohio.....	3,666	20,353	2,516	5,497	13,026	41,451	44,672	109,930	4,381	56
Indiana.....	1,826	9,511	1,306	2,607	6,193	17,646	17,905	43,683	2,189	31
Illinois.....	2,945	17,668	2,099	4,302	11,861	38,056	41,454	119,917	4,630	47
Michigan.....	2,450	13,404	1,668	3,568	8,307	25,829	26,726	67,366	2,151	40
Wisconsin.....	1,326	7,159	945	1,923	4,730	14,163	14,440	36,235	1,635	26
West North Central.....	5,742	26,613	4,132	8,961	18,186	66,092	67,703	155,857	7,970	70
Minnesota.....	1,083	4,661	712	1,463	3,032	13,093	13,167	27,333	1,540	14
Iowa.....	994	4,422	689	1,329	2,886	11,469	11,525	26,240	1,614	10
Missouri.....	2,161	10,257	1,589	3,842	7,384	23,739	24,788	53,826	1,532	23
Nebraska.....	435	2,184	313	617	1,201	5,058	5,262	16,149	1,186	7
Kansas.....	836	4,077	662	1,364	3,047	10,575	10,633	26,012	1,322	13
South Atlantic.....	9,345	37,516	6,495	12,858	23,912	78,689	81,637	224,896	10,373	148
Delaware.....	297	1,155	200	310	590	3,119	3,152	6,467	184	5
Maryland.....	777	3,799	451	875	1,808	5,568	5,773	20,617	571	15
District of Columbia.....	366	1,991	307	690	1,484	2,747	2,747	10,798	456	4
Virginia.....	1,218	5,362	1,001	2,284	4,189	13,455	14,026	32,341	1,178	15
West Virginia.....	493	2,542	296	547	1,352	5,096	5,501	12,045	279	10
North Carolina.....	973	3,142	773	1,400	2,385	6,865	6,814	18,348	1,132	13
South Carolina.....	496	1,670	368	665	1,168	4,465	4,577	12,347	450	9
Georgia.....	996	3,414	794	1,380	2,588	5,845	5,905	18,589	832	17
Florida.....	3,729	14,441	2,305	4,687	8,348	31,529	33,144	93,344	5,271	60
East South Central.....	3,300	12,325	2,398	4,626	8,290	27,144	28,923	73,719	4,218	44
Kentucky.....	836	3,333	570	1,049	2,212	6,142	6,356	17,023	855	8
Tennessee.....	924	3,901	678	1,600	2,646	9,798	10,437	25,728	1,560	16
Alabama.....	809	2,842	622	1,115	2,049	6,564	7,304	18,584	777	12
Mississippi.....	731	2,249	528	862	1,383	4,640	4,826	12,384	1,026	8
West South Central.....	7,021	29,746	5,330	11,022	21,318	69,803	70,094	187,359	8,405	98
Arkansas.....	688	2,722	568	1,209	2,155	7,183	6,427	12,807	418	6
Louisiana.....	1,379	5,555	1,168	2,172	4,557	11,648	12,208	34,996	1,562	19
Oklahoma.....	978	4,196	792	1,570	3,444	9,354	9,477	26,001	1,188	9
Texas.....	3,976	17,273	2,802	6,071	11,162	41,618	41,982	113,555	5,237	64
Mountain.....	3,315	16,883	2,647	5,340	12,457	35,236	35,913	84,151	4,406	53
Idaho.....	270	1,277	212	397	920	2,529	2,576	5,896	352	4
Colorado.....	626	3,276	503	970	2,504	8,051	7,996	20,594	616	12
New Mexico.....	498	2,232	362	1,390	1,390	4,072	4,224	11,151	826	8
Arizona.....	843	4,905	771	1,657	3,954	9,734	10,233	20,400	1,119	11
Utah.....	576	2,728	402	816	1,857	6,000	6,028	13,769	684	12
Pacific.....	9,349	50,315	6,460	13,142	33,546	98,645	102,235	260,069	10,881	153
Washington.....	1,499	8,553	1,087	2,067	5,565	15,013	16,928	35,331	1,566	24
Oregon.....	990	4,602	767	1,440	3,283	9,772	9,829	21,921	1,485	13
California.....	6,860	37,160	4,606	9,635	24,698	73,860	75,478	202,817	8,030	116

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁶Although respondents were requested not to include sales delivery personnel (highway truck drivers and their helpers) as production workers it is believed production workers for many States may be overstated by an indeterminate number due to misreporting by type.

Table 2.--QUANTITY AND VALUE OF READY-MIXED CONCRETE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958

(Includes quantity and value of these products reported not only by establishments classified in the Ready-Mixed Concrete Industry but also by establishments making these items are "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers	
		Quantity (cubic yards)	Value (\$1,000)
3273011	Ready-mixed concrete.....	(NA)	1,462,273

NA Not available.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32D-5

MINERAL WOOL INDUSTRY

(Industry Code 3275—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Mineral Wool Industry shipped products valued at \$239 million, an increase of 47 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 17 percent from 1954 to 1958 to a total of 11.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$132 million in 1958, an increase of 44 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MINERAL WOOL INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3275)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.9	10.2	+17
Payroll.....	Million dollars...	59.3	44.0	+35
Production workers:				
Number.....	Thousands.....	9.1	7.6	+20
Man-hours.....	Millions.....	18.9	15.9	+19
Wages.....	Million dollars...	42.9	31.2	+38
Value added by manufacture, unadjusted ².....	..do.....	131.3	89.9	+46
Value added by manufacture, adjusted ³.....	..do.....	132.1	91.7	+44
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	107.9	71.8	+50
Value of shipments ⁵.....	..do.....	238.8	162.7	+47
Capital expenditures, new.....	..do.....	11.6	6.1	+90
Number of establishments with 20 or more employees ⁶	Number.....	61	56	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Mineral Wool Industry includes establishments engaged primarily in the manufacture of mineral wool and mineral-wool insulation products made of such materials as rock, slag and silica. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Mineral Wool Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Mineral Wool Industry amounted to \$239 million. Of this total, \$222 million were products primary to the industry, \$14 million were products primary to other industries, and \$3 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$235 million of mineral wool were shipped by all producers of these products. Of this total, \$222 million, or 95 percent, were shipped by plants classified in Industry 3275, Mineral Wool, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE MINERAL WOOL INDUSTRY (S.I.C. CODE 3275) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	11,936	59,252	9,075	18,905	42,943	131,343	132,115	238,759	11,586	62	10,244	89,887
Northeast.....	1,939	10,692	1,460	3,194	7,170	23,115	23,649	39,574	1,200	14	1,070	8,848
East North Central.....	5,441	26,227	4,037	8,435	19,262	56,609	57,084	102,516	5,545	20	5,457	45,345
Ohio.....	3,136	15,546	2,140	4,408	11,068	33,740	34,039	62,648	3,140	4	3,389	28,201
West North Central.....	2,313	11,459	1,868	3,945	9,099	27,050	27,281	54,956	2,217	7	2,001	20,595
East South Central.....	608	2,950	505	992	2,277	4,492	4,471	8,364	511	6	309	2,038
West South Central.....	250	1,052	138	404	677	2,532	2,515	4,565	57	4	157	1,186

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF MINERAL WOOL SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Mineral Wool Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3275---	Mineral wool from rock, slag and glass, total.....	.....	xxx	234,544	xxx	160,383
	Structural insulation (for insulating homes, commercial and industrial buildings for human comfort):					
3275012	Loose wool (shipped as such) and granulated wool.....	Short tons.....	289,541	14,854	233,244	12,231
3275021	Building batts, blankets, and rolls					
3275023	Full thick (3 inches or more).....	1,000 sq. ft.....	647,637	24,391	477,149	20,532
3275027	2 to 2.9 inches thick.....	..do.....	602,736	17,834	806,453	26,674
	Less than 2 inches thick.....	..do.....	532,757	13,244		
3275086	Industrial and equipment insulation:					
	Acoustical pads and boards.....	1,000 sq. ft.....	146,000	30,631	61,346	12,865
	Blankets (flexible):					
	Industrial insulation:					
3275075	Faced, coated and metal-meshed.....	1,000 bd. ft.....	194,937	14,007	xxx	14,630
3275073	Plain.....	..do.....	387,148	17,585		
	Equipment insulation.....	..do.....	433,520	21,261		
	Felts (semirigid)					
3275081	Industrial insulation.....	..do.....	30,689	809		
3275083	Equipment insulation.....	..do.....	107,265	1,909	xxx	166,265
3275084	Blocks and boards.....	..do.....	248,202	30,251		
3275085	Pipe insulation.....	1,000 lin. ft.....	76,805	22,960		
3275071	Loose wool (shipped as such) and granulated wool.....	short tons.....	9,139	521		
3275087	Insulating and finishing cements.....	..do.....	15,827	2,032		
3275098	Other mineral wool insulating products.....	.....	xxx	217,915	xxx	4,956
3275000	Mineral wool, not specified by kind.....	.....	xxx	4,340	xxx	2,230

xxx Not applicable.

¹1954 product detail not comparable to 1958.

²Largely accounted for by shipments of organic mat and aircraft insulation.

DEPARTMENT OF COMMERCE
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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32D-6

CUT STONE AND STONE PRODUCTS INDUSTRY

(Industry Code 3281—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Cut-Stone and Stone Products Industry shipped products valued at \$208 million, an increase of 8 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 20.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$130 million in 1958, an increase of 7 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE CUT-STONE AND STONE PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3281)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	20.6	21.6	-5
Payroll.....	Million dollars...	83.5	78.2	+7
Production workers:				
Number.....	Thousands.....	17.2	18.4	-6
Man-hours.....	Millions.....	33.6	36.7	-8
Wages.....	Million dollars...	64.4	60.7	+6
Value added by manufacture, unadjusted ².....	..do.....	127.5	119.8	+6
Value added by manufacture, adjusted ³.....	..do.....	129.9	121.5	+7
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	77.4	70.1	+10
Value of shipments ⁵.....	..do.....	207.6	191.5	+8
Capital expenditures, new.....	..do.....	8.3	4.3	+93
Number of establishments with 20 or more employees ⁶	Number.....	246	239	+3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Cut-Stone and Stone Products Industry includes establishments engaged primarily in cutting, shaping, and finishing marble, granite, slate and other stone for building and miscellaneous uses. Important products of this industry include monuments and tombstones, dimension stones for building, slate blackboards, and stone furniture. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Cut-Stone and Stone Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Cut-Stone and Stone Products Industry amounted to \$208 million. Of this total, \$189 million were products primary to the industry, \$7 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product ship-

ments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$195 million of cut-stone and stone products were shipped by all producers of these products. Of this total, \$189 million, or 97 percent, were shipped by plants classified in Industry 3281, Cut-Stone and Stone Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc.. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE CUT-STONE AND STONE PRODUCTS INDUSTRY (S.I.C. CODE 3281) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	20,579	83,518	17,247	33,597	64,429	127,465	129,880	207,624	8,345	246	21,576	119,765
Northeast.....	6,936	29,844	5,751	11,403	23,242	44,619	45,410	72,992	3,502	86	7,926	46,185
Vermont.....	3,536	14,744	2,928	5,841	11,743	21,008	21,143	34,406	815	36	3,402	15,964
Pennsylvania.....	1,090	4,097	932	1,857	3,300	6,224	6,505	9,795	430	19	1,448	9,962
North Central.....	7,293	32,446	6,052	12,151	24,447	49,242	49,249	78,035	2,653	91	7,774	46,175
Ohio.....	688	2,882	570	1,112	2,246	4,942	4,758	7,641	160	8	566	3,736
Indiana.....	2,353	10,039	2,093	3,869	8,304	15,531	14,188	20,389	1,019	29	2,834	17,140
Illinois.....	629	3,582	482	1,020	2,534	4,986	5,003	8,860	157	8	889	6,469
Wisconsin.....	575	2,749	470	920	2,047	3,448	3,649	6,582	265	9	591	3,198
Minnesota.....	1,700	7,488	1,326	2,889	5,221	12,525	12,576	19,267	142	17	1,729	9,603
Kansas.....	269	996	232	466	815	1,635	1,700	2,800	40	5	142	770
South and West.....	6,350	21,228	5,444	10,043	16,740	33,604	35,221	56,597	2,190	69	5,876	27,403
North Carolina.....	641	2,020	561	1,045	1,621	2,130	3,235	4,808	170	6	551	2,286
Georgia.....	2,149	6,760	1,870	3,456	5,513	11,860	12,019	18,709	800	22	1,968	9,907
Tennessee.....	1,079	3,232	969	1,841	2,591	4,823	4,990	7,462	208	9	881	3,175
Alabama.....	338	1,214	302	608	1,017	2,326	2,397	3,167	16	3	478	2,119
Texas.....	411	1,494	336	551	1,157	2,203	2,282	4,623	153	4	367	2,138
California.....	386	1,939	284	542	1,366	3,331	3,288	6,134	327	5	301	1,814

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 34

GROUP 35

GROUP 33

Table 3.--QUANTITY AND VALUE OF CUT-STONE AND STONE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Cut-Stone and Stone Products Industry but also by establishments making these items as "secondary" products other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)
3281--	Cut-stone and stone products, total.....	xxx	194,753	xxx	166,768
32811--	Cut marble and marble products, total.....	xxx	36,007	xxx	27,859
	Dressed dimension stone:				
3281101	Marble (made in quarries), not specified by kind.....	96,985	12,306	(NA)	(NA)
3281111	Building stone.....	xxx	10,273	(NA)	(NA)
3281131	Monumental stone.....	xxx	2,636	(NA)	(NA)
3281198	Other marble products.....	xxx	7,981	(NA)	(NA)
3281100	Cut marble and marble products, not specified by kind.....	xxx	2,811	(NA)	(NA)
32812--	Cut granite and granite products, total.....	xxx	89,245	xxx	67,510
	Granite (including gneiss, syenite, diorite):				
3281201	Dressed dimension stone (made in quarries), not specified by kind:				
	Quantity reported.....	438,648	24,269	(NA)	(NA)
	Quantity not reported.....	xxx	6,026		
	Dressed dimension stone (not made in quarries):				
3281211	Building stone.....	xxx	4,076	(NA)	(NA)
3281231	Monumental stone.....	xxx	43,981	(NA)	(NA)
3281298	Other granite products, such as paving blocks and curbing	xxx	3,026	(NA)	(NA)
3281200	Cut granite and granite products, not specified by kind.....	xxx	7,867	(NA)	(NA)
32813--	Cut limestone and limestone products, total.....	xxx	36,264	xxx	40,017
	Limestone (including dolomite, cement rock, marl, travertine, calcareous tufa):				
3281301	Dressed dimension stone (made in quarries), not specified by kind.....	501,373	13,546	(NA)	(NA)
	Dressed dimension stone (not made in quarries):				
3281311	Building stone.....	xxx	17,610	(NA)	(NA)
3281398	Other limestone products, such as flagging.....	xxx	1,779	(NA)	(NA)
3281300	Cut limestone and limestone products, not specified by kind.	xxx	3,329	(NA)	(NA)
32814--	Other cut-stone and stone products, total.....	xxx	20,235	xxx	20,915
	Dressed dimension stone:				
3281401	Other dressed dimension stone, except marble, granite and limestone (made in quarries), not specified by kind:				
	Quantity reported.....	263,668	10,000	(NA)	(NA)
	Quantity not reported.....	xxx	2,054		
3281411	Slate, roofing, mill stock, and flagstone.....	xxx	2,121	(NA)	(NA)
3281498	Sandstone, basalt, and other dressed dimension stone products..	xxx	3,863	(NA)	(NA)
3281400	Other cut-stone and stone products, not specified by kind.....	xxx	2,197	(NA)	(NA)
3281000	Cut-stone and stone products, not specified by kind.....	xxx	13,002	xxx	10,467

NA Not available.

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32E-1

ABRASIVE PRODUCTS INDUSTRY

(Industry Code 3291—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Abrasive Products Industry shipped products valued at \$492 million, an increase of 40 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 8 percent from 1954 to 1958 to a total of 24.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$279 million in 1958, an increase of 40 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ABRASIVE PRODUCTS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3291)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	24.0	22.3	+8
Payroll.....	Million dollars...	128.1	101.2	+27
Production workers:				
Number.....	Thousands.....	16.0	15.8	+1
Man-hours.....	Millions.....	31.1	30.4	+2
Wages.....	Million dollars...	75.6	62.0	+22
Value added by manufacture, unadjusted ².....	..do.....	278.6	191.9	+45
Value added by manufacture, adjusted ³.....	..do.....	278.6	199.0	+40
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	211.4	153.6	+39
Value of shipments ⁵.....	..do.....	498.1	349.2	+40
Capital expenditures, new.....	..do.....	21.1	9.9	+113
Number of establishments with 20 or more employees ⁶	Number.....	131	132	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 24

GROUP 35

GROUP 33

The Abrasive Products Industry includes establishments engaged primarily in the manufacture of abrasive grinding wheels of natural or synthetic materials; abrasive sticks, stones, bricks, paper and cloth; abrasive grains, natural or manufactured; and buffing and polishing wheels. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Abrasive Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Abrasive Products Industry amounted to \$492 million. Of this total, \$388 million were products primary to the industry, \$76 million were products primary to other industries, and \$28 million were receipts for miscellaneous activities. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 94 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$404 million of abrasive products were shipped by all producers of these products. Of this total, \$388 million, or 96 percent, were shipped by plants classified in Industry 3291, Abrasive Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE ABRASIVE PRODUCTS INDUSTRY (S.I.C. CODE 3291) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	23,976	128,069	15,985	31,141	75,606	278,579	278,624	491,787	21,109	131	22,345	191,850
New England.....	6,515	36,374	3,936	7,509	19,325	64,075	61,139	110,171	8,466	29	6,552	52,674
Massachusetts.....	5,655	32,327	3,379	6,442	17,156	56,420	53,228	96,021	8,502	17	5,740	46,664
Connecticut.....	525	2,707	337	645	1,373	5,459	5,665	9,533	110	7	435	3,836
Middle Atlantic.....	9,353	52,417	5,952	11,726	29,891	96,826	98,114	169,277	8,099	36	9,812	89,918
New York.....	7,219	41,057	4,607	9,105	23,521	78,192	78,822	135,989	6,808	17	7,680	73,120
New Jersey.....	591	3,170	392	776	1,760	4,767	4,670	9,190	114	4	584	4,787
Pennsylvania.....	1,543	8,190	953	1,845	4,610	13,867	14,622	24,098	1,177	15	1,547	12,010
East North Central.....	4,996	23,713	3,613	7,225	14,791	60,209	60,884	102,351	2,132	52	5,109	41,133
Ohio.....	1,623	7,068	1,162	2,331	4,499	14,131	14,485	25,817	472	15	1,484	9,070
Illinois.....	1,355	6,716	1,048	2,091	4,278	25,466	25,212	34,892	696	15	1,515	15,196
Michigan.....	1,488	7,739	950	1,901	4,197	15,143	15,679	28,863	698	18	1,724	15,007
Wisconsin.....	342	1,230	301	595	1,048	3,418	3,384	9,557	20	1	308	1,187
West.....	731	3,641	528	1,008	2,467	7,470	7,861	14,254	1,008	11	448	3,606
California.....	498	2,402	346	652	1,502	4,632	5,067	9,874	503	8	269	2,362

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 24

GROUP 35

GROUP 33

Table 3.--QUANTITY AND VALUE OF ABRASIVE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Abrasive Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3291---	Abrasive products, total.....		xxx	404,386	xxx	355,849
32911--	Nonmetallic abrasives.....		xxx	314,144	xxx	287,172
	Artificial (synthetic) abrasives:					
	Sized grains, powders, and flour:					
3291117	Silicon carbide.....	Short tons.....	57,823	15,457	36,365	9,698
3291119	Aluminum oxide.....	..do.....	73,875	22,837	83,969	17,927
3291121	Other (including combinations of silicon carbide and aluminum oxide, boron carbide, etc.).....	..do.....	3,463	528	24,320	5,027
	Coated abrasive products (coated or impregnated with artificial abrasive material):					
3291123	Cloth.....	Ream.....	504,023	44,125	476,821	40,122
3291125	Paper.....	..do.....	848,482	31,653	791,238	26,942
3291127	Other (including paper-cloth combinations, vulcanized fiber-cloth combinations, vulcanized fiber, etc.).....		xxx	15,121	xxx	7,661
	Bonded abrasive products:					
3291129	Sticks, stones, hones, balls, and brick (excluding refractory brick, floor and stair brick, and similar byproducts).....		xxx	18,243	xxx	8,683
	Grinding and cutting wheels:					
3291131	Silicon carbide.....		xxx	31,203	xxx	32,341
3291133	Aluminum oxide.....		xxx	61,520	xxx	70,813
3291135	Other grinding and cutting wheels (including combination of silicon carbide and aluminum oxide).....		xxx	4,662	xxx	6,226
3291139	Other artificial nonmetallic abrasives and abrasive products including grinding, lapping, buffing compounds, and crude lump forms.....		xxx	9,860	xxx	8,254
	Nonmetallic abrasives - natural, except diamonds:					
	Coated abrasive products (coated or impregnated with natural abrasive material):					
3291147	Cloth.....	Ream.....	100,639	5,729	131,150	5,520
3291149	Paper.....	..do.....	450,800	6,961	623,743	9,166
3291151	Other (including paper-cloth combinations, vulcanized fiber-cloth combinations, vulcanized fiber, etc.).....		xxx	1,354	xxx	960
	Bonded abrasive products:					
3291155	Grinding and cutting wheels.....		xxx	8,053	xxx	8,311
3291153	Sticks, stones, hones, and brick (exclude refractory brick, floor and stair brick, and similar byproducts).....		xxx	5,473		
3291159	Other natural nonmetallic abrasives, including grinding, lapping, and buffing compounds, sized grains, powder, and flour ¹		xxx			
	Nonmetallic abrasives - diamond:					
3291161	Diamond wheels.....		xxx	23,792	xxx	21,935
3291163	Other diamond abrasives.....		xxx	1,788	xxx	1,504
3291100	Nonmetallic abrasives, not specified by kind ²		xxx	5,785	xxx	6,082
32912--	Metal abrasives.....		xxx	61,041	xxx	45,923
	Metal abrasives, except scouring pads:					
3291211	Steel and iron grit, shot, and sand.....	Short tons.....	164,432	16,383	160,441	15,303
3291231	Steel wool.....	..do.....	7,581	5,997	7,348	5,053
	Metal scouring pads and other metal abrasives:					
3291253	Metal pads with soap or other cleanser impregnated or in package.....	Gross.....	11,604,022	26,918	9,974,751	20,237
3291257	Other.....	..do.....	(NA)	2,835	xxx	5,330
3291259	Other scouring pads.....	..do.....	(NA)	1,512		
3291298	Other metal abrasives and metallic abrasives, not specified by kind ²		xxx	7,396		
3291311	Buffing and polishing wheels and laps made of cloth, leather, felt, and other materials (containing no abrasive grains, powders, or flour).....		xxx	20,496	xxx	21,522
3291000	Abrasive products, not specified by kind.....		xxx	8,705	xxx	1,232

NA Not available.

xxx Not applicable.

¹Includes shipments of sticks, stones, hones, and brick, product code 3291153.²Largely accounted for by small establishments who were required to report value of shipments by product class only.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P) -32E-2

GASKETS AND ASBESTOS INSULATIONS INDUSTRY

(Industry Code 3293—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Gaskets and Asbestos Insulations Industry shipped products valued at \$188 million, an increase of 13 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 5 percent from 1954 to 1958 to a total of 13.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$106 million in 1958, an increase of 21 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE GASKETS AND ASBESTOS INSULATIONS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3293)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	13.4	12.8	+5
Payroll.....	Million dollars...	64.7	55.1	+17
Production workers:				
Number.....	Thousands.....	9.8	10.1	-3
Man-hours.....	Millions.....	19.6	20.3	-3
Wages.....	Million dollars...	41.1	37.2	+10
Value added by manufacture, unadjusted ².....	..do.....	99.6	84.5	+18
Value added by manufacture, adjusted ³.....	..do.....	105.5	87.3	+21
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	81.7	78.6	+4
Value of shipments ⁵.....	..do.....	187.6	166.1	+13
Capital expenditures, new.....	..do.....	4.8	5.0	-4
Number of establishments with 20 or more employees ⁶	Number.....	98	87	+13

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 24

GROUP 35

GROUP 33

The Gaskets and Asbestos Insulations Industry includes establishments engaged primarily in the manufacture of packing for steam, water, and other pipe points, and for engines, air compressors, etc.; asbestos insulating materials for covering boilers and pipes; and gaskets. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Gaskets and Asbestos Insulations Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Gaskets and Asbestos Insulations Industry amounted to \$188 million. Of this total, \$147 million were products primary to the industry, \$21 million were products primary to other industries, and \$20 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$213 million of gaskets and asbestos insulations were shipped by all producers of these products. Of this total, \$147 million, or 69 percent, were shipped by plants classified in Industry 3293, Gaskets and Asbestos Insulations, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE GASKETS AND ASBESTOS INSULATIONS INDUSTRY (S.I.C. CODE 5293) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	13,389	64,665	9,825	19,582	41,128	99,628	105,463	187,555	4,811	98	12,807	84,485
New England.....	911	4,211	664	1,306	2,530	6,531	6,719	10,865	203	8	1,093	6,346
Massachusetts.....	423	2,067	298	580	1,167	3,252	3,301	5,997	178	4	628	3,453
Middle Atlantic.....	3,083	15,292	2,070	4,259	9,501	24,828	25,259	47,716	1,352	22	3,693	22,190
New York.....	479	2,135	363	703	1,336	3,290	3,378	7,020	64	6	563	3,435
New Jersey.....	522	2,721	351	792	1,796	5,490	5,400	10,067	128	7	1,657	7,556
Pennsylvania.....	2,082	10,436	1,356	2,764	6,369	16,048	16,481	30,629	1,160	9	1,472	11,199
East North Central.....	7,619	36,938	5,806	11,402	24,071	54,370	58,097	102,952	2,786	48	6,771	46,921
Ohio.....	790	3,188	632	1,159	2,086	5,281	5,404	9,636	424	11	446	2,703
Indiana.....	749	3,090	626	1,251	2,249	5,288	5,365	9,204	136	4	332	2,195
Illinois.....	4,768	24,002	3,461	6,796	14,766	33,404	37,031	62,349	1,845	20	3,991	26,573
Michigan.....	1,124	5,748	937	1,898	4,386	8,946	8,811	19,322	278	10	1,907 ⁴	14,775
South Atlantic.....	316	1,213	237	458	790	1,733	1,667	3,372	98	1	363	2,008
West South Central.....	548	2,183	354	702	1,251	3,442	3,954	6,880	93	10	220	1,717
West.....	835	4,452	644	1,351	2,781	8,002	9,074	14,211	254	8	569	4,633
California.....	782	4,209	597	1,231	2,583	7,577	8,645	13,419	234	7	557	4,522

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 2A

GROUP 35

GROUP 33

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF GASKETS AND ASBESTOS INSULATIONS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Gaskets and Asbestos Insulations Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3293---	Gaskets and asbestos insulations, total.....	.....	xxx	xxx	212,939	xxx	xxx	184,112
32931--	Insulation materials containing asbestos.....	.....	xxx	xxx	36,403	xxx	xxx	45,853
3293111	Pipe insulation:	.....	xxx	xxx	5,303	xxx	xxx	8,494
3293113	Cellular and laminated.....	.....	xxx	xxx	7,650	xxx	xxx	12,677
3293119	85 percent magnesia.....	.....	xxx	xxx	7,080	xxx	xxx	6,526
	Other pipe insulation.....	.....	xxx	xxx		xxx	xxx	
	Block insulation (including sheet and lagging):	.....					
3293153	85 percent magnesia.....	1,000 bd. ft.....	14,745	14,760	4,437	22,574	21,733	5,498
3293159	Other block insulation, including cellular and laminated.....	..do.....	21,254	21,218	5,209	(¹)	(¹)	4,722
3293198	All other asbestos insulation.....	.....	xxx	xxx	4,917	xxx	xxx	7,936
3293100	Insulation materials containing asbestos, not specified by kind.....	.....	xxx	xxx	1,827			
32932--	Gaskets, all types (for sealing nonmoving parts).....	.....	xxx	xxx	143,070	xxx	xxx	112,781
3293211	Asbestos, asbestos-metallic, and asbestos-rubber.....	.....	xxx	xxx	25,938	xxx	xxx	21,838
3293221	Cork.....	.....	xxx	xxx	17,748	xxx	xxx	13,152
3293231	Rubber (except asbestos-rubber).....	.....	xxx	xxx	43,176	xxx	xxx	22,935
3293243	Paper and felt base.....	.....	xxx	xxx	6,761	xxx	xxx	10,362
3293251	Metal.....	.....	xxx	xxx	22,437	xxx	xxx	26,577
3293298	Leather and other gaskets.....	.....	xxx	xxx	21,714	xxx	xxx	14,248
3293200	Gaskets, not specified by kind.....	.....	xxx	xxx	5,296	xxx	xxx	3,669
32933--	Packing, except leather, rubber, and metal (for sealing moving parts).....	.....	xxx	xxx	25,995	xxx	xxx	23,894
3293311	Asbestos compressed sheet.....	1,000 pounds.....	9,021	9,045	3,367	xxx	8,362	5,021
3293331	Other asbestos, asbestos-metallic, and asbestos-rubber.....	..do.....	9,012	8,411	13,207	xxx	6,671	9,299
3293398	Other packing.....	.....	(NA)	(NA)	7,749			
3293300	Packing, not specified by kind.....	.....	xxx	xxx	1,672	xxx	xxx	9,574
3293000	Gaskets and asbestos insulations, not specified by kind.....	.....	xxx	xxx	7,471	xxx	xxx	1,584

NA Not available.

xxx Not applicable.

¹In 1954 value of shipments of cellular and laminated block insulation was \$583,000 (quantity not available); quantity of production of other block insulation: 17,446 thousand bd. ft.; quantity of shipments 17,297 thousand bd. ft.; value of shipments \$4,139,000.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32E-3

GROUP 24

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NONMETALLIC MINERAL PRODUCTS, N.E.C., INDUSTRY

(Industry Code 3299—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by the Non-metallic Mineral Products, Not Elsewhere Classified, Industry amounted to \$29 million, a decrease of 4 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value of shipments in this industry amounted to \$61 million in 1958, an increase of 8 percent over 1954. Average employment in this industry showed a decrease of 22 percent from 1954 to 1958 to a total of 3.5 thousand employees in 1958. Value added is

derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE NONMETALLIC MINERAL PRODUCTS, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3299)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.5	4.5	-22
Payroll.....	Million dollars...	14.8	15.8	-6
Production workers:				
Number.....	Thousands.....	2.6	3.6	-28
Man-hours.....	Millions.....	5.2	7.1	-27
Wages.....	Million dollars...	9.2	10.9	-16
Value added by manufacture, unadjusted ².....	...do.....	28.2	30.3	-7
Value added by manufacture, adjusted ³.....	...do.....	29.2	30.3	-4
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	30.4	26.1	+16
Value of shipments ⁵.....	...do.....	61.4	56.6	+8
Capital expenditures, new.....	...do.....	1.2	1.6	-25
Number of establishments with 20 or more employees ⁶	Number.....	39	38	+3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Nonmetallic Mineral Products, N.E.C., Industry includes establishments engaged primarily in the manufacture of exfoliated vermiculite; stucco; magnesite floor composition; sand-lime brick, block and tile; and other nonmetallic mineral products not elsewhere classified. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Nonmetallic Mineral Products, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Nonmetallic Mineral Products, N.E.C., Industry amounted to \$61 million. Of this total, \$45 million were products primary to the industry, \$10 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$54 million of non-metallic mineral products, n.e.c., were shipped by all producers of these products. Of this total, \$45 million, or 84 percent, were shipped by plants classified in Industry 3299, Nonmetallic Mineral Products, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE NONMETALLIC MINERAL PRODUCTS, N.E.C., INDUSTRY (S.I.C. CODE 3299) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	3,503	14,839	2,610	5,176	9,168	28,250	29,191	€1,406	1,187	39	4,483	30,340
New England.....	530	2,104	436	836	1,387	3,333	3,473	6,704	137	4	685	3,683
Middle Atlantic.....	1,067	5,316	726	1,458	3,023	11,091	11,073	20,901	305	9	1,851	14,417
Pennsylvania.....	251	1,158	179	338	718	2,514	2,538	4,752	96	3	287	3,086
East North Central.....	467	2,195	322	644	1,346	4,129	4,382	9,590	244	7	745	5,388
South.....	985	3,000	798	1,569	2,101	5,231	5,546	12,856	249	13	885	3,537

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF NONMETALLIC MINERAL PRODUCTS, N.E. C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Nonmetallic Mineral Products, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 cu. ft.)	Value (\$1,000)	Quantity (1,000 cu. ft.)	Value (\$1,000)
3299---	Nonmetallic mineral products, not elsewhere classified, total.....	xxx	53,882	xxx	49,047
32991--	Exfoliated vermiculite.....	xxx	11,282	xxx	11,071
	Building insulation:				
3299111	Loose fill.....	(NA)	2,077	15,097	3,690
3299113	Aggregate.....	(NA)	6,201	14,081	3,693
3299115	Other (such as acoustical).....	(NA)	707	(NA)	660
3299157	Industrial insulation.....	(NA)	527	780	216
3299198	Other insulating products of exfoliated vermiculite.....	...	718	xxx	2,812
3299100	Other insulating products of exfoliated vermiculite, not specified by kind.....	xxx	xxx	1,052	...
3299211	Sheet mica products, except for electronic applications, including laminated.....	xxx	22,459	xxx	24,708
3299310	Sand-lime brick, block, and tile.....	xxx	9,320	xxx	12,883
32994--	Other nonmetallic mineral products, not elsewhere classified.....	xxx	9,586	xxx	10,385
3299411	Magnesite floor composition.....	xxx	3,421	xxx	5,615
3299451	Stucco.....	xxx	3,553	xxx	4,770
3299498	Other nonmetallic mineral products including sapphire boule....	...	2,612	xxx	...
3299400	Other nonmetallic mineral products, not specified by kind.....	xxx	1,235	xxx	...
3299000	Nonmetallic mineral products, not elsewhere classified, not specified by kind.....	xxx	1,235	xxx	...

NA Not available.

xxx Not applicable.

¹In 1954 shipments of sand-lime bricks were reported as follows: 102,972 thousand bricks shipped with a value of \$2,548 thousand.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32E-4

NONCLAY REFRACTORIES INDUSTRY

(Industry Code 3297—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Nonclay Refractories Industry shipped products valued at \$195 million, an increase of 48 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 8.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$108 million in 1958, an increase of 40 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE NONCLAY REFRACTORIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3297)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.5	8.6	-1
Payroll.....	Million dollars...	43.9	34.3	+28
Production workers:				
Number.....	Thousands.....	6.7	7.2	-7
Man-hours.....	Millions.....	12.4	12.9	-4
Wages.....	Million dollars...	32.2	26.1	+23
Value added by manufacture, unadjusted ².....	..do.....	109.3	78.1	+40
Value added by manufacture, adjusted ³.....	..do.....	108.3	77.4	+40
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	84.9	55.7	+58
Value of shipments ⁵.....	..do.....	195.1	132.1	+48
Capital expenditures, new.....	..do.....	8.0	5.7	+116
Number of establishments with 20 or more employees ⁶	Number.....	71	59	+20

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Nonclay Refractories Industry includes establishments engaged primarily in the manufacture of Refractories and Crucibles made of materials other than clay. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in The Nonclay Refractories Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Nonclay Refractories Industry amounted to \$195 million. Of this total, \$179 million were products primary to the industry, \$12 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 96 percent.

The total value of shipments for the industry, which is the total value of receipts of

establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$198 million of nonclay refractories were shipped by all producers of these products. Of this total, \$179 million, or 90 percent, were shipped by plants classified in Industry 3297, nonclay refractories, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE NONCLAY REFRACTORIES INDUSTRY (S.I.C. CODE 3297), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	8,477	43,906	6,678	12,369	32,230	109,330	108,303	195,072	7,964	71	8,559	78,101
Middle Atlantic.....	3,700	18,934	2,756	4,947	12,915	38,820	38,534	67,164	2,752	29	4,212	32,107
Pennsylvania.....	2,419	11,957	1,934	3,296	8,866	26,106	25,203	41,679	733	21	3,149	23,461
East North Central.....	1,787	9,314	1,534	2,862	7,516	25,981	25,398	47,555	2,485	18	1,651	14,128
Ohio.....	807	4,197	673	1,262	3,223	10,916	10,720	20,131	265	10	677	5,742
South.....	1,997	10,343	1,661	3,215	8,355	29,384	29,733	50,300	1,350	9	1,770	20,732
Pacific.....	560	3,047	405	758	1,992	9,724	9,264	21,648	176	7	474	6,990

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF NONCLAY REFRACTORIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Nonclay Refractories Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3297---	Nonclay refractories, total, as reported in the 1958 Census of Manufactures.....	.....	xxx	198,205	xxx	141,006
3297---	Nonclay refractories, total, as reported on Census Quarterly Form M52C.....	.....	xxx	192,965	xxx	xxx
3297012	Silica brick and shapes.....	1,000 9" equivalent	202,685	42,190	226,402	37,875
3297015	Magnesite and magnesite-chrome (magnesite predominating) brick and shapes (excluding molten cast).....	.....	39,673	30,692	31,351	18,959
3297021	Chrome and chrome-magnesite (chrome ore predominating) brick and shapes (excluding molten cast).....	.....	42,582	30,296	35,783	18,773
3297033	Graphite crucibles, retorts, stopper heads, and other shaped refractories containing natural graphite.....	Short tons.....	13,537	8,119	29,980	25,522
3297035	Carbon refractories; brick, blocks, and shapes, excluding those containing natural graphite.....	.....	.....	.....	.....	.....
3297052	Mullite brick and shapes made predominantly of kyanite, sillimanite, andalusite or synthetic mullite (excluding molten cast).....	1,000 9" equivalent	4,047	4,764	.....	.....
3297053	Extra-high alumina brick and shapes made predominantly of fused bauxite, fused or dense-sintered alumina (excluding molten cast).....	.....	2,001	4,009	.....	22,958
3297054	Silicon carbide brick and shapes made substantially of silicon carbide.....	.....	3,802	8,285	.....	.....
3297055	Zircon and zirconia brick and shapes made predominantly of these materials.....	.....	547	2,010	.....	.....
3297056	Forsterite, pyrophyllite, molten-cast, and other nonclay brick and shapes.....	.....	xxx	11,793	.....	.....
3297063	Nonclay refractory bonding mortars, air setting (wet and dry types).....	Short tons.....	97,800	9,615	69,493	7,961
3297065	Nonclay refractory bonding mortars, except air setting types.....	.....	19,261	1,521	.....	.....
3297071	Nonclay plastic refractories and ramming mixes (wet and dry types).....	.....	188,137	20,578	98,867	8,252
3297081	Dead-burned magnesite or magnesite ³.....	.....	177,237	8,853	276,745	13,385
3297091	Nonclay refractory castables (hydraulic setting).....	.....	5,947	730	.....	.....
3297098	Other nonclay refractory materials sold in lump or ground form ³..	.....	147,200	9,420	xxx	7,341

xxx Not applicable.

¹Excludes figures for dead-burned dolomite which is classified in Industry 3274 (code 3274071).

²In 1954: graphite and other carbon crucibles and retorts, quantity of shipments 8,262 tons, value of shipments \$4,731 thousand; other graphite and carbon refractories, quantity 1,718 tons, value of shipments \$791 thousand.

³Represents only shipments by establishments classified in "manufacturing" industries, and excludes shipments to refractory producers for the manufacture of brick and other refractories.

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GROUP 35

GROUP 35

GROUP 33

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32E-5

MINERALS: GROUND OR TREATED INDUSTRY

(Industry Code 3295--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Minerals: Ground or Treated Industry shipped products valued at \$187 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 7.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$99 million in 1958, an increase of 9 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MINERALS: GROUND OR TREATED INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3295)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.3	7.7	-5
Payroll.....	Million dollars...	37.1	32.4	+14
Production workers:				
Number.....	Thousands.....	5.8	6.4	-9
Man-hours.....	Millions.....	12.3	13.8	-11
Wages.....	Million dollars...	27.2	24.3	+12
Value added by manufacture, unadjusted ².....	...do.....	98.7	89.7	+10
Value added by manufacture, adjusted ³.....	...do.....	99.1	90.8	+9
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	85.9	63.5	+35
Value of shipments ⁵.....	...do.....	186.8	154.0	+21
Capital expenditures, new.....	...do.....	6.5	10.2	-36
Number of establishments with 20 or more employees ⁶	Number.....	98	108	-9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Minerals: Ground or Treated Industry includes establishments engaged primarily in grinding, pulverizing or otherwise treating certain earths, rocks, or minerals, such as barytes, borax, chalk, clays, Cornwall stone, feldspar, kaolin, mica, pumice, quartz, silica, talc, and natural graphite as well as establishments primarily engaged in crushing or grinding purchased slag. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Minerals: Ground or Treated Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Minerals: Ground or Treated Industry amounted to \$187 million. Of this total, \$154 million were products primary to the industry, \$8 million were products primary to other industries, and \$25 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$185 million of minerals: ground or treated were shipped by all producers of these products. Of this total, \$154 million, or 84 percent, were shipped by plants classified in Industry 3295, Minerals: Ground or Treated, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE MINERALS: GROUND OR TREATED INDUSTRY (S.I.C. CODE 3295) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,327	37,068	5,791	12,261	27,157	98,664	99,118	186,781	6,497	98	7,699	89,725
Middle Atlantic.....	2,075	11,337	1,596	3,430	8,053	24,517	24,753	47,225	1,911	32	1,798	16,424
New York.....	414	2,150	331	719	1,709	4,712	4,926	7,580	689	6	432	4,365
New Jersey.....	495	2,657	355	776	1,627	5,585	5,547	9,652	361	6	442	3,425
Pennsylvania.....	1,166	6,530	910	1,935	4,717	14,220	14,280	29,993	861	20	922	8,633
East North Central.....	1,487	8,593	1,189	2,590	6,386	19,637	21,436	38,255	864	20	1,735	20,796
Ohio.....	495	2,736	416	869	2,190	6,163	6,167	10,050	298	7	591	6,981
Indiana.....	310	2,128	265	693	1,783	4,403	4,412	6,902	95	4	222	3,025
Illinois.....	429	2,482	325	664	1,603	3,144	4,885	9,182	381	8	413	2,843
South Atlantic.....	913	3,902	722	1,555	2,879	9,471	9,426	14,996	869	10	993	8,170
East South Central.....	557	2,256	477	956	1,787	7,906	7,798	12,364	537	8	938	11,589
Alabama.....	263	1,136	224	420	875	3,749	3,632	5,053	256	4	577	6,405
West South Central.....	739	3,102	566	1,166	2,137	13,574	11,995	33,008	411	12	704	10,557
Texas.....	409	1,675	308	622	1,092	5,232	4,793	13,005	271	8	440	6,124
Mountain.....	407	2,088	347	669	1,627	7,747	7,695	11,096	448	5	253	6,791
Pacific.....	819	4,362	612	1,311	3,161	13,038	13,207	24,222	627	7	809	9,797
California.....	754	4,087	562	1,209	2,949	12,206	12,334	22,554	542	7	748	9,510

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF MINERALS: GROUND OR TREATED SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Minerals: Ground or Treated Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of Measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3295---	Minerals: ground or treated, total.....	.....	xxx	182,975	xxx	157,510
3295111	Light-weight aggregate (such as diatomaceous earth, expanded clay, expanded slag, cinders, perlite, haydite, but excluding vermiculite).....	.....	(NA)	21,900	xxx	23,008
32952--	Minerals and earths, ground or otherwise treated.....	.....	xxx	155,522	xxx	126,436
3295211	Crushed slag.....	1,000 tons.....	16,794	31,415	18,531	29,690
3295222	Ground talc, soapstone and pyrophyllite.....	Short tons.....	186,114	4,020	(¹)	(¹)
3295251	Crushed and ground uncalcined gypsum (including gypsum and anhydrite).....	do.....	1,871,621	9,138	xxx	(²)
3295271	Ground mica.....	do.....	35,124	2,815	36,109	3,155
3295298	Other minerals and earths, ground or otherwise treated (including roofing granules, ground feldspar activated clays, pulverized limestone and silica).....	.....	xxx	103,039	xxx	291,270
3295311	Natural graphite, ground, refined, or blended.....	Short tons.....	35,516	4,928	48,724	5,151
3295000	Minerals: ground or treated, not specified by kind.....	.....	xxx	5,720	xxx	2,915

xxx Not applicable.

NA Not available.

¹In 1954, shipments of ground talc were: quantity (tons) 99,957; value, \$2,321 thousand. Value of shipments of ground soapstone and pyrophyllite included with, "Other minerals and earths, ground or otherwise treated" (3295298).

²1954 data for crushed and ground uncalcined gypsum (code 3295251) included with, "Other minerals and earths: ground or otherwise treated" (code 3295298).

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1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-32E-6

ASBESTOS PRODUCTS INDUSTRY

(Industry Code 3292--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Asbestos Products Industry shipped products valued at \$454 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 3 percent from 1954 to 1958 to a total of 21.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$235 million in 1958, an increase of 26 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ASBESTOS PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3292)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.3	22.0	-3
Payroll.....	Million dollars...	106.5	92.4	+15
Production workers:				
Number.....	Thousands.....	17.0	17.8	-4
Man-hours.....	Millions.....	35.1	36.0	-2
Wages.....	Million dollars...	80.5	70.3	+14
Value added by manufacture, unadjusted ²	do.....	231.2	179.9	+28
Value added by manufacture, adjusted ³	do.....	235.0	186.9	+26
Cost of materials, fuel, electricity, and contract work.....	do.....	217.3	176.8	+23
Value of shipments ⁴	do.....	453.7	361.1	+26
Capital expenditures, new.....	do.....	12.8	14.9	-14
Number of establishments with 20 or more employees ⁵	Number.....	80	84	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

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The Asbestos Products Industry includes establishments engaged primarily in the manufacture of asbestos textiles, asbestos building materials (except asbestos paper - Industry 2613), and other commodities composed wholly or chiefly of asbestos, except steam and other packing, pipe and boiler covering, and gaskets (Industry 3293). This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Asbestos Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Asbestos Products Industry amounted to \$454 million. Of this total, \$385 million were products primary to the industry, \$47 million were products primary to other industries, and \$22 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$420 million of asbestos products were shipped by all producers of these products. Of this total, \$385 million, or 92 percent, were shipped by plants classified in Industry 3292, Asbestos Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ASBESTOS PRODUCTS INDUSTRY (S.I.C. CODE 3292) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	21,305	106,472	17,054	35,091	80,480	231,155	234,959	453,680	12,837	80	21,977	179,864
New England.....	2,119	10,921	1,625	3,374	8,131	18,345	19,455	33,488	454	9	2,376	15,608
Middle Atlantic.....	8,474	43,090	6,763	14,010	32,789	83,968	82,287	164,715	3,111	22	8,358	68,728
New York.....	1,528	7,782	1,268	2,619	5,758	13,301	12,040	41,999	615	4	1,503	14,039
New Jersey.....	4,635	24,083	3,681	7,900	18,737	47,948	46,843	84,092	1,923	10	4,551	36,823
Pennsylvania.....	2,311	11,225	1,814	3,491	8,294	22,719	23,404	38,624	573	8	2,303	17,865
East North Central.....	4,335	22,512	3,443	7,104	16,740	54,204	56,603	113,298	2,107	14	4,755	43,133
Indiana.....	1,008	4,705	792	1,603	3,505	11,128	11,598	19,229	194	5	883	7,491
Illinois.....	3,027	16,512	2,424	5,074	12,297	39,284	41,207	88,694	1,874	7	3,089	29,707
West North Central.....	729	3,618	622	1,270	2,991	7,840	8,019	14,735	670	5	982	7,830
South.....	3,738	15,935	3,093	6,101	12,114	37,385	37,706	69,252	4,673	17	4,009	27,801
North Carolina.....	481	1,618	422	865	1,347	3,277	3,139	6,770	95	3	563	2,762
Louisiana.....	1,048	4,797	851	1,620	3,662	1,123	11,092	20,602	503	5	1,517	11,792
Texas.....	582	2,848	452	991	1,970	7,515	8,192	15,142	3,583	4	470	3,701
West.....	1,910	10,396	1,488	3,232	7,715	29,413	30,889	58,192	1,822	13	1,495	16,761

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

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Table 3.—QUANTITY AND VALUE OF ASBESTOS PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Asbestos Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3292--	Asbestos products, total.....	.....	xxx	xxx	419,876	xxx	xxx	323,093
32921--	Asbestos textiles.....	.....	xxx	xxx	23,262	xxx	xxx	28,535
3292141	Yarn, cord, and thread.....	1,000 pounds.....	8,561	6,884	6,017	xxx	6,086	4,594
3292151	Cloth.....	..do.....	7,296	6,663	6,898	xxx	6,024	7,443
3292198	Other asbestos textile (such as roving, lap, wick, rope, tape, carded fiber, etc.)	.....	xxx	(NA)	10,347	xxx	(NA)	16,498
32922--	Asbestos friction materials.....	.....	xxx	xxx	89,844	xxx	xxx	73,852
	Brake linings:							
3292211	Woven (containing asbestos yarn, tape, or cloth).....	1,000 linear feet..	10,596	10,402	7,791	14,665	14,568	6,449
3292215	Molded (including all nonwoven types)....	Cubic feet.....	(NA)	(NA)	58,909	577,072	566,025	48,323
	Clutch facing:							
3292251	Woven (containing asbestos yarn, tape, or cloth).....	1,000 pieces.....	14,800	14,800	10,159	14,999	15,117	8,634
3292255	Molded (including all nonwoven types)....	..do.....	(NA)	(NA)	12,985	26,180	26,892	9,848
32923--	Asphalt and vinyl asbestos floor tile.....	.....	xxx	xxx	142,643	xxx	xxx	90,672
3292311	Asphalt.....	1,000 square yards.	108,461	108,929	76,728	112,165	109,679	90,672
3292315	Vinyl asbestos.....	..do.....	57,101	55,946	65,915			
32924--	Asbestos-cement shingles and clapboard.....	.....	xxx	xxx	50,222	xxx	xxx	53,263
3292411	Siding shingles and clapboard.....	1,000 squares.....	4,298	4,208	45,636	6,105	5,625	47,817
3292451	Roofing shingles.....	..do.....	335	327	4,586	508	491	5,446
32925--	Asbestos-cement flat and corrugated sheets and wallboard.....	.....	xxx	xxx	20,207	xxx	xxx	21,766
3292511	Flat sheets and wallboard, all thicknesses converted to 1/4" basis.....	1,000 square feet..	87,705	85,894	15,916	118,140	104,108	15,293
3292551	Corrugated sheets.....	..do.....	20,483	19,869	4,291	39,694	37,894	6,473
32926--	Other asbestos and asbestos-cement products..	.....	xxx	xxx	89,105	xxx	xxx	53,904
3292611	Pipe, conduits, and ducts (including pressure pipe).....	Short tons.....	377,210	366,305	69,750	xxx	xxx	53,904
	Asbestos felts:							
3292661	Roofing, asphalt or tar saturated.....	..do.....	21,931	22,147	4,949			
3292665	Other.....	..do.....	25,338	25,311	8,264			
3292600	Other asbestos and asbestos-cement products including millboard and other asbestos products (not specified by kind).....	.....	xxx	xxx	6,142			
3292000	Asbestos products not specified by kind.....	.....	xxx	xxx	4,593	xxx	xxx	...

NA Not available.

xxx Not applicable.

GROUP 34

GROUP 35

GROUP 33

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P)-33A-1

ELECTROMETALLURGICAL PRODUCTS INDUSTRY

(Industry Code 3313—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electrometallurgical Products Industry shipped products valued at \$370 million, an increase of 36 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 11.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$164 million in 1958, an increase of 38 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ELECTROMETALLURGICAL PRODUCTS INDUSTRY: 1958 AND 1954

(Standard Industrial Classification Code 3313)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.8	11.4	+4
Payroll.....	Million dollars...	66.5	51.3	+30
Production workers:				
Number.....	Thousands.....	8.6	8.8	-2
Man-hours.....	Millions.....	17.5	17.6	-1
Wages.....	Million dollars...	45.0	36.9	+22
Value added by manufacture, unadjusted ².....	..do.....	162.6	114.7	+42
Value added by manufacture, adjusted ³.....	..do.....	163.8	118.8	+38
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	207.8	158.0	+32
Value of shipments ⁵.....	..do.....	370.1	272.8	+36
Capital expenditures, new.....	..do.....	18.6	22.3	-17
Number of establishments with 20 or more employees ⁶	Number.....	35	29	+21

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Electrometallurgical Products Industry includes establishments engaged primarily in the manufacture of ferro and nonferrous additive alloys by electrometallurgical processes, including high-percentage ferroalloys such as ferromanganese, ferrochromium, ferrovanadium and ferrotitanium and high percentage nonferrous additive alloys. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Electrometallurgical Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electrometallurgical Products Industry amounted to \$370 million. Of this total, \$350 million were products primary to the industry, \$14 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipment (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$382 million of electric furnace ferroalloys were shipped by all producers of these products. Of this total, \$350 million, or 92 percent, were shipped by plants classified in Industry 3313, Electrometallurgical Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE ELECTROMETALLURGICAL PRODUCTS INDUSTRY (S.I.C. CODE 3313), BY REGIONS: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	11,799	66,529	8,620	17,464	44,983	162,583	163,765	370,059	18,610	35	11,361	114,718
Middle Atlantic.....	3,172	19,431	1,857	3,974	10,685	34,296	35,015	78,208	10,003	6	3,186	37,859
North Central.....	3,008	16,621	2,120	4,081	10,720	42,130	44,268	101,285	4,562	12	3,636	28,818
South.....	4,474	23,542	3,703	7,465	18,172	60,989	58,636	148,293	3,191	10	3,729	44,017
West.....	1,145	6,935	940	1,944	5,406	25,168	25,846	42,273	854	7	810	4,022

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF ELECTRIC FURNACE FERROALLOYS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Electrometallurgical Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958						1954	
		Total production (short tons)	Total shipments including inter-plant transfers		Shipments to other companies		Transfers to other plants of the same company		Total shipments including inter-plant transfers
			Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	
3313012	Electric furnace ferroalloys and other additives ¹	1,151,098	1,150,350	381,504	1,065,522	354,980	84,828	26,524	1,041,949
									262,174

¹Data for blast furnaces ferroalloys and other additives will be published in the report for S.I.C. Code 3312, Blast Furnaces and Steel Mills.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-33A-2

MALLEABLE-IRON FOUNDRIES

(Industry Code 3322—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in Malleable-Iron Foundries shipped products valued at \$211 million, a decrease of 1 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 20.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$126 million in 1958, a decrease of 6 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR MALLEABLE-IRON FOUNDRIES IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3322)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	20.0	23.4	-15
Payroll.....	Million dollars...	99.1	96.9	+2
Production workers:				
Number.....	Thousands.....	16.5	20.2	-18
Man-hours.....	Millions.....	30.9	38.3	-19
Wages.....	Million dollars...	76.1	78.0	-2
Value added by manufacture, unadjusted ².....	..do.....	125.6	135.2	-7
Value added by manufacture, adjusted ³.....	..do.....	125.5	133.3	-6
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	85.8	78.1	+10
Value of shipments ⁵.....	..do.....	211.5	213.3	-1
Capital expenditures, new.....	..do.....	4.4	10.0	-56
Number of establishments with 20 or more employees ⁶	Number.....	73	77	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

Malleable-Iron Foundries include establishments engaged primarily in the manufacture of malleable iron castings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified as Malleable-Iron Foundries consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified as Malleable-Iron Foundries amounted to \$211 million. Of this total, \$182 million were products primary to the industry, \$28 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$203 million of malleable-iron castings were shipped by all producers of these products. Of this total, \$182 million, or 90 percent, were shipped by plants classified in Industry 3322, Malleable-Iron Foundries, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR MALLEABLE-IRON FOUNDRIES (S.I.C. CODE 3322), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	19,951	99,108	16,492	30,944	76,148	125,592	125,473	211,470	4,420	73	23,378	135,175
New England.....	881	3,710	722	1,224	2,558	5,048	5,056	7,500	265	7	862	4,532
Middle Atlantic.....	2,852	13,041	2,427	4,377	10,288	17,263	17,244	26,073	302	16	3,432	17,599
Pennsylvania.....	1,677	7,804	1,431	2,568	6,176	10,614	10,518	15,934	210	9	1,475	8,201
East North Central.....	14,772	75,882	12,187	23,239	58,706	94,229	94,392	164,040	3,741	42	17,645	105,192
Ohio.....	3,194	16,033	2,737	5,355	13,097	19,568	19,835	31,443	957	10	4,084	22,115
Indiana.....	1,393	5,689	1,113	2,019	4,313	6,219	5,907	10,634	268	6	2,196	10,344
Illinois.....	4,663	25,350	3,875	7,371	19,797	30,754	31,300	54,858	1,069	11	5,424	35,799
Michigan.....	4,110	21,907	3,293	6,306	16,116	28,190	28,005	53,056	1,317	7	4,227	27,497
Wisconsin.....	1,412	6,903	1,169	2,188	5,383	9,498	9,345	14,049	130	8	1,712	9,435
South and West.....	1,017	4,616	809	1,428	3,168	6,509	6,291	10,091	70	5	972	5,275

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF MALLEABLE-IRON CASTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified as Malleable-Iron Foundries but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958						1954	
		Total shipments and interplant transfers		Shipments to other companies		Transfers to other plants of the same company		Total shipments and interplant transfers	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3322—	Malleable-iron castings, total.....	1581,598	203,301	389,701	146,654	1191,897	56,647	687,815	204,916
3322021	Standard.....	464,672	164,879	319,662	120,875	145,010	44,004	687,815	204,916
3322031	Pearlitic.....	116,612	35,954	69,725	23,311	46,887	12,643		
3322000	Malleable-iron castings, not specified by kind.....	xxx	2,468	xxx	2,468	xxx	...	xxx	...

xxx Not applicable.

¹Differs from the figures published in Facts for Industry Series M33-1, "Iron and Steel Castings" in that no figures are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Facts for Industry report, captive production ("for own use") including both interplant transfers and castings produced and consumed by the same plant for 1958 totaled 277 thousand tons of malleable-iron castings. Of this total, only the 192 thousand tons of malleable-iron castings transferred to other plants are included above.

GROUP 35

GROUP 35

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-33A-3

GRAY-IRON FOUNDRIES

(Industry Code 3321—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers as Gray-Iron Foundries shipped products valued at \$1431 million, a decrease of 1 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 16 percent from 1954 to 1958 to a total of 112.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$808 million in 1958, a decrease of 5 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE GRAY-IRON FOUNDRIES IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3321)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	112.3	133.9	-16
Payroll.....	Million dollars...	529.7	557.5	-5
Production workers:				
Number.....	Thousands.....	96.1	118.3	-19
Man-hours.....	Millions.....	177.6	230.2	-23
Wages.....	Million dollars...	417.8	459.0	-9
Value added by manufacture, unadjusted ².....	..do.....	808.0	846.3	-5
Value added by manufacture, adjusted ³.....	..do.....	808.2	847.4	-5
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	621.3	592.8	+5
Value of shipments ⁵.....	..do.....	1,430.8	1,441.9	-1
Capital expenditures, new.....	..do.....	32.6	49.9	-35
Number of establishments with 20 or more employees ⁶	Number.....	844	940	-10

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

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Gray-Iron Foundries include establishments engaged primarily in the manufacture of gray-iron castings, including cast gray-iron pipe and fittings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified as Gray-Iron Foundries consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified as Gray-Iron Foundries amounted to \$1431 million. Of this total, \$1335 million were products primary to the industry, \$66 million were products primary to other industries, and \$30 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 94 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total of

primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1531 million of gray-iron castings were shipped by all producers of these products. Of this total, \$1335 million, or 87 percent, were shipped by plants classified in Industry 3321, Gray-Iron Castings while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

Table 2.--GENERAL STATISTICS FOR THE GRAY-IRON FOUNDRIES INDUSTRY (S.I.C. CODE 3321) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	112,292	529,717	96,143	177,572	417,838	808,038	808,243	1,430,839	32,595	844	133,914	846,271
New England.....	4,725	19,972	4,090	7,397	15,923	28,358	28,130	42,740	803	62	6,282	36,520
Massachusetts.....	2,740	12,020	2,411	4,376	9,849	18,346	18,142	27,397	524	30	3,492	23,157
Rhode Island.....	342	1,118	270	511	891	1,386	1,388	2,081	(D)	6	352	1,648
Connecticut.....	1,257	5,460	1,082	1,921	4,093	6,753	6,763	10,485	205	17	1,622	8,297
Middle Atlantic.....	17,962	82,083	15,551	27,464	65,089	115,195	117,014	213,509	8,355	164	21,634	131,443
New York.....	3,945	17,316	3,440	6,319	13,992	22,904	22,778	37,993	577	41	5,212	30,334
New Jersey.....	5,130	24,799	4,372	7,984	19,449	39,498	40,665	68,439	3,508	34	5,841	41,711
Pennsylvania.....	8,887	39,968	7,739	13,161	31,648	52,793	53,571	107,077	4,270	89	10,580	59,398
East North Central.....	53,091	271,426	44,672	82,897	211,934	403,095	400,771	705,448	13,046	338	67,250	444,482
Ohio.....	16,251	82,236	13,676	24,688	63,191	135,648	135,096	239,833	4,894	103	20,348	141,118
Indiana.....	6,628	32,367	5,713	10,738	25,770	46,293	45,209	76,599	1,787	49	7,124	38,991
Illinois.....	6,342	28,883	5,224	9,200	21,609	39,546	39,658	79,137	1,105	69	7,750	44,981
Michigan.....	17,950	100,418	15,460	29,699	81,737	146,093	145,230	252,512	4,043	78	25,686	184,786
Wisconsin.....	5,920	27,522	4,599	8,572	19,627	35,515	35,578	57,367	1,217	39	6,341	34,604
West North Central.....	5,289	23,001	4,579	8,470	18,327	34,915	34,936	55,155	881	62	5,575	30,453
Minnesota.....	909	4,094	758	1,387	2,999	7,060	7,150	10,720	155	16	986	6,263
Iowa.....	1,186	5,067	1,050	2,004	4,238	6,734	6,708	11,096	149	15	1,270	6,360
Missouri.....	2,385	10,371	2,092	3,722	8,474	14,724	14,637	24,389	387	19	2,710	14,312
Kansas.....	607	2,501	535	1,023	1,978	4,485	4,572	6,482	90	10	474	2,857
South Atlantic.....	6,833	27,217	5,802	11,224	20,408	44,602	44,742	78,950	1,088	53	5,780	31,384
Virginia.....	2,861	12,145	2,457	4,983	9,061	18,898	18,757	36,342	561	14	2,618	14,575
Georgia.....	510	1,565	450	763	1,273	1,800	1,817	3,074	69	6	232	843
East South Central.....	13,934	59,340	12,367	22,663	49,297	98,958	99,181	196,016	4,096	62	16,208	98,279
West South Central.....	4,170	15,125	3,658	6,973	11,908	27,616	28,706	47,043	891	32	3,665	22,542
Texas.....	3,625	13,157	3,189	6,113	10,370	24,560	25,639	42,532	745	23	3,113	19,760
Mountain.....	1,251	6,361	1,073	2,086	4,976	13,939	13,828	24,550	234	15	1,653	11,966
Pacific.....	5,037	25,192	4,351	8,398	19,976	41,360	40,935	67,428	3,201	56	5,863	39,198
Washington.....	371	1,821	333	647	1,519	2,714	2,674	4,029	(D)	5	487	3,011
Oregon.....	389	2,192	380	757	1,914	4,170	4,149	6,046	(D)	4	503	3,115
California.....	4,277	21,179	3,638	6,994	16,543	34,476	34,112	57,353	2,805	47	4,872	33,070

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF GRAY-IRON CASTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified as Gray-Iron Foundries but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958						1954	
		Total shipments and interplant transfers		Shipments to other companies		Transfers to other plants of the same company		Total shipments and interplant transfers	
		Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)
3321----	Gray-iron castings, total ¹	7,679,346	1,530,817	5,736,822	1,144,613	1,942,524	386,204	8,364,700	1,513,457
3321011	Molds for heavy steel ingots.....	1,509,368	147,705	959,038	97,295	550,330	50,410	1,329,598	110,018
3321022	Chilled iron railroad car wheels.....	224,359	15,757	224,359	15,757			303,725	15,821
3321031	Rolls for rolling mills.....	67,043	38,130	67,043	38,130	(2)	(2)	75,909	27,549
3321051	Cast-iron pressure pipe and fittings: Under 14" (inside diameter).....	1,105,508	165,703	1,105,508	216,503	(2)	(2)	1,145,971	138,016
3321053	14"-24" inclusive (inside diameter).....	192,980	26,364	192,980	26,364	(2)	(2)	220,684	25,303
3321059	Over 24" (inside diameter).....	28,677	4,079	28,677	4,079			66,874	6,971
3321061	Cast-iron soil pipe and fittings.....	757,293	119,768	757,293	2119,768	(2)	(2)	758,707	108,346
3321098	All other gray-iron castings.....	3,794,118	1,013,311	2,401,924	677,517	1,392,194	335,794	4,463,232	1,081,433

¹Differs from the tonnage data published in Facts for Industry Series M33-1, "Iron and Steel Castings," in that no data are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Facts for Industry report, captive production ("for own use") including both interplant transfers and castings produced and consumed by the same plant for 1958 totaled 4,508 thousand tons of gray iron castings. Of this total, only the 1,943 thousand tons of gray iron castings, transferred to other plants are included above. The differences between the tonnages shown above for "shipments to other companies" and the "for sale" figures in Series M33-1 are due to differences in classification in the Census and monthly survey with regard to such products as machinery parts, etc., fiscal year reports in the Census as well as certain revision of the monthly data reported in the Census.

²Figures for transfers to other plants of the same company are included with "shipments to other companies."

USCOMM--DC

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-33A-4

STEEL FOUNDRIES

(Industry Code 3323--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in Steel Foundries shipped products valued at \$596 million, an increase of 10 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of The Census, Department of Commerce. Average employment in this industry showed a decrease of .11 percent from 1954 to 1958 to a total of 49.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$384 million in 1958, an increase of 11 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR STEEL FOUNDRIES IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3323)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	49.1	55.1	-11
Payroll.....	Million dollars...	254.2	241.3	+5
Production workers:				
Number.....	Thousands.....	40.1	45.7	-12
Man-hours.....	Millions.....	74.4	85.7	-13
Wages.....	Million dollars...	186.7	179.4	+4
Value added by manufacture, unadjusted ².....	..do.....	391.5	357.8	+9
Value added by manufacture, adjusted ³.....	..do.....	383.7	346.7	+11
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	203.8	181.3	+12
Value of shipments ⁵.....	..do.....	596.2	539.8	+10
Capital expenditures, new.....	..do.....	19.3	16.4	+18
Number of establishments with 20 or more employees ⁶	Number.....	216	203	+6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

Steel Foundries include establishments engaged primarily in the manufacture of steel castings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified as Steel Foundries consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified as Steel Foundries amounted to \$596 million. Of this total, \$503 million were products primary to the industry, \$84 million were products primary to other industries, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$588 million of

steel castings were shipped by all producers of these products. Of this total, \$503 million, or 86 percent, were shipped by plants classified in Industry 3323, Steel Foundries while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR STEEL FOUNDRIES (S.I.C. CODE 3323) BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	49,125	254,225	40,128	74,352	186,703	391,486	383,662	596,176	19,272	216	55,073	357,824
New England.....	1,450	7,672	1,143	2,309	5,640	10,498	10,417	16,047	237	9	989	6,194
Middle Atlantic.....	14,238	78,227	11,457	21,157	56,126	117,210	111,890	176,779	6,518	52	18,436	120,412
Pennsylvania.....	10,854	58,283	8,898	15,985	42,657	87,355	82,920	129,296	4,084	35	13,877	88,117
East North Central.....	20,985	109,307	17,171	30,977	80,237	172,495	169,974	259,639	6,638	74	23,137	155,214
Ohio.....	6,242	32,797	5,040	9,155	22,847	49,948	48,509	74,893	3,165	24	6,648	41,788
Indiana.....	3,574	20,253	3,157	5,986	16,992	36,733	36,783	53,562	336	5	3,723	25,969
Illinois.....	5,344	25,721	4,274	7,105	18,213	40,175	39,207	60,409	1,799	17	6,930	45,072
Michigan.....	2,222	10,898	1,814	3,329	8,163	15,229	14,918	25,187	400	13	2,471	17,813
Wisconsin.....	3,603	19,638	2,886	5,402	14,022	30,410	30,557	45,568	938	15	3,364	24,570
West North Central.....	3,444	15,880	2,801	5,181	12,321	25,450	25,939	39,134	1,654	13	3,138	18,367
South and West.....	9,008	43,139	7,556	14,728	32,379	65,833	65,442	104,577	4,225	68	9,371	57,634
Washington.....	488	2,770	411	790	2,028	3,699	3,749	5,799	113	7	479	2,996
Oregon.....	1,058	5,483	856	1,701	4,093	9,534	9,463	15,701	132	6	799	6,447

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF STEEL CASTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified as Steel Foundries but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958						1954	
		Total shipments and interplant transfers		Shipments to other companies		Transfers to other plants of the same company		Total shipments and interplant transfers	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3323---	Steel castings, total ¹	xxx	588,062	xxx	547,209	56,900	40,853	995,384	535,054
3323012	Carbon steel castings:								
3323013	Cast steel railroad car wheels.....	206,976	66,120	203,309	64,491	3,667	1,629	123,293	41,986
	Railway specialties (except cast railroad car wheels).....								
3323015	Rolls for rolling mills.....	10,941	5,903	10,634	5,749	307	154	9,476	2,748
3323019	Other carbon steel castings.....	401,482	234,311	372,243	216,814	29,239	17,497	527,542	244,139
3323021	High manganese steel castings.....	49,127	36,079	47,018	34,886	2,109	1,193	(NA)	(NA)
3323031	High alloy steel castings ²	31,332	66,783	27,242	59,784	4,090	6,999	31,209	64,399
	Alloy (except high alloy) steel castings:								
3323051	Railway specialties.....	17,596	8,653	16,983	8,232	613	421	15,891	6,566
3323055	Rolls for rolling mills.....	49,853	26,833	43,872	23,670	5,981	3,163	41,052	16,546
3323059	Other alloy steel castings.....	147,555	103,666	136,738	94,250	10,817	9,416	246,921	158,670
3323061	Investment steel castings.....	2,887	30,754	2,810	30,373	77	381	(NA)	(NA)
3323000	Steel castings, not specified by kind.....	xxx	8,960	xxx	8,960	...	...	...	...

NA Not available.

xxx Not applicable.

¹Differs from the tonnage figures published in Facts for Industry Series M33-1 "Iron and Steel Castings" in that no figures are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Facts for Industry report, captive production ("for own use") including both interplant transfers and castings produced and consumed by the same plant for 1958 totalled 264 thousand tons of steel castings. Of this total, only the 57 thousand tons of transfers to other plants of the same company are included above. The differences between the tonnages shown above for "shipments to other companies" and the "for sale" figures in Series M33-1 are due to differences in classification in the Census and monthly survey with regard to such products as machinery parts, etc., fiscal year reports in the Census as well as certain revisions of the monthly data reported in the Census.

²Heat and/or corrosion-resistant steel castings containing 8 percent or more of chromium or nickel, or both, with or without molybdenum or other elements.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33A-5

BLAST FURNACES AND STEEL MILLS

(Census Code 3312--Includes SIC Codes 2931, 2932, 3311 and 3312--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in Blast Furnaces and Steel Mills amounted to \$6,065 million, an increase of 20 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 512.8 thousand employees in 1958.

This industry includes establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars and tubing. In many such establishments, the manufacturing processes are carried beyond the hot-rolling stage and into the production of steel forgings, drawn wire, welded and heavy-riveted pipe, cold-rolled sheet and strip, cold-finished bars and shapes, and wire nails and spikes. Merchant blast furnaces and byproduct or

beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes are classified in Industry 3313. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

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VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments of Industry 3312 include extensive duplication resulting from the transfer of products such as coke to establishments producing pig iron; the transfer of pig iron from non-integrated blast furnaces to steel works; and the fact that considerable quantities of steel ingots, semi-finished shapes and finished shapes and forms are transferred from one steel mill to another for further processing. The value of such shipments are duplicated in the total value of shipments. A corresponding duplication enters into the total cost of materials. Totals are, therefore, not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product specialization ratio" for this industry cannot be computed. Similarly, the exact "coverage ratio" for Industry 3312 cannot be computed.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3A) which show the shipments by all producers of the primary products of the industry.

DESCRIPTION OF TABLES 3A, 3B, 3C, AND 3D

Table 3A of this report presents data for 1958 and 1954 for all steel works and rolling mill products including coke oven products, blast furnace products, steel ingot, semi-finished steel mill shapes, and finished steel shapes. The data in this table for ingot, semi-finished shapes and finished steel shapes are shown only at product class levels.

Table 3B represents a consolidated tabulation, by grade, shape and form of receipts,

production, consumption within the industry, shipments and interplant transfers for 1958. Table 3C presents the same data for 1954.

Table 3D presents data for 1954-1958 on net shipments of steel mill products including ingot, semi-finished shapes and finished mill shapes. The figures on net shipments are derived by subtracting the steel mills' receipts of each mill shape from the total of shipments to other companies, transfers to other plants, and tonnage consumed in the steel mill in the production of fabricated products and as maintenance, repair and operating supplies.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 1.—GENERAL STATISTICS FOR BLAST FURNACES AND STEEL MILLS IN THE UNITED STATES: 1958 AND 1954

(Census Code 3312; SIC Codes 2931, 2932, 3311 and 3312)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	512.8	*553.8	-7
Payroll.....	Million dollars...	3,192.5	*2,581.3	+24
Production workers:				
Number.....	Thousands.....	418.3	*470.8	-11
Man-hours.....	Millions.....	768.2	*883.1	-13
Wages.....	Million dollars...	2,422.4	*2,059.5	+18
Value added by manufacture, unadjusted ².....	..do.....	5,947.2	5,014.4	+19
Value added by manufacture, adjusted ³.....	..do.....	6,064.9	5,055.4	+20
Cost of materials, fuel, electricity, and contract work.....	..do.....	(4)	(4)	(NA)
Value of shipments.....	..do.....	(4)	(4)	(NA)
Capital expenditures, new.....	..do.....	950.8	580.5	+64
Number of establishments with 20 or more employees ⁴	Number.....	263	(NA)	(NA)

*Revised.

NA Not available

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 2.—GENERAL STATISTICS FOR BLAST FURNACES AND STEEL MILLS (CENSUS CODE 3312) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees ²	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	512,771	3,192,474	418,312	768,203	2,422,422	5,947,203	6,064,904	(7)	950,813	263	*553,850	5,014,388
New England.....	3,783	23,015	2,962	5,451	16,019	27,455	29,925		3,880	6	*63,949	629,014
Middle Atlantic.....	194,462	1,171,831	156,489	279,760	871,688	1,985,396	2,045,434		286,373	97	*204,972	61,563,468
New York.....	27,279	164,399	21,958	40,500	124,580	287,786	301,593		15,881	18	*28,763	6256,402
All other divisions....	314,526	1,997,628	258,861	482,992	1,534,715	3,934,352	3,989,545		660,560	160	*312,424	3,048,031
Indiana.....	56,338	356,636	45,637	84,247	267,869	763,633	765,896	(7)	185,147	11	57,333	560,219
Illinois.....	38,345	248,583	30,499	57,564	180,562	433,646	442,602		121,071	19	*38,076	6398,439
Michigan.....	17,347	123,579	14,167	28,607	94,623	210,101	219,387		36,872	8	20,217	238,550

*Revised.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.⁵Detail figures will not agree with this total due to the exclusion of coke oven data for some states. See footnote 6.⁶Data are limited to blast furnaces and steel works to avoid disclosing figures for individual companies.⁷Value of shipments are omitted for this industry because this measure contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry. See text.

GROUP 35

GROUP 35

Table 3A.--QUANTITY AND VALUE OF BLAST FURNACE AND STEEL MILL PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified as Blast Furnaces and Steel Mills but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Production	1958						1954		
				Shipments including interplant transfers						Produced and consumed in the same plant in manufacture of other products	Total shipments and interplant transfers ¹	
				Total		Shipments to other companies		Transfers to other plants of the same company			Quantity	Value
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)			
3312---	Steel works and rolling mill products, total ¹		xxx	xxx	14,291,231	xxx	xxx	xxx	xxx	xxx	xxx	14,927,639
29321--	Coke, screenings and breeze ¹	Thousand s.tons.	56,507	18,709	329,774	8,383	148,435	10,327	181,339	36,977	60,702	935,453
2932111	Coke, except screenings and breeze.....	do.	52,893	17,569	321,342	7,415	141,187	10,155	180,155	34,648	57,913	920,995
2932151	Screenings and breeze.....	do.	3,614	1,140	8,432	968	7,248	172	1,184	2,329	2,789	14,458
2932211	Coke oven gas ¹	Million cu.ft.	783,039	163,906	36,433	82,100	22,255	81,806	14,178	604,801	533,290	118,210
29323--	Other coke-oven by products ¹		xxx	xxx	157,781	xxx	(D)	xxx	(D)	xxx	xxx	193,902
2932311	Ammonia (sulfate and liquor).....		xxx	xxx	21,096	xxx	20,640	xxx	456	xxx	xxx	36,310
2932321	Crude tar.....	Thousand gallons	692,349	399,093	52,165	342,561	45,780	56,532	6,385	282,828	610,284	59,584
2932331	Tar derivatives.....	xxx	xxx	xxx	19,983	xxx	(D)	xxx	(D)	xxx	xxx	17,660
2932341	Crude light oil.....	Thousand gallons	210,909	30,656	5,360	13,797	2,429	16,859	2,931	178,180	27,249	6,060
2932351	Light oil derivatives.....	do.	167,022	159,842	45,819	(D)	(D)	(D)	(D)	15,024	193,030	68,907
2932398	Other coke oven products..		xxx	xxx	13,358	xxx	xxx	xxx	xxx	xxx	xxx	5,381
33128--	Blast furnace products ¹		xxx	xxx	626,248	xxx	287,414	xxx	338,834	xxx	xxx	2,625,402
3312811	Pig iron (including pig iron with silicon content up to and including 6% silicon).....	Thousand s.tons.	57,050	9,157	512,938	3,911	230,281	5,246	282,657	47,492	57,970	2,490,038
3312831	Slag.....	do.	xxx	19,888	10,509	(D)	(D)	(D)	(D)	xxx	223,757	9,375
3312835	Sinter from ore, flue dust and other materials.....	do.	24,631	xxx	8,745	xxx	(D)	xxx	(D)	24,054	3,570	36,400
3312839	Blast furnace gas.....	Million cu.ft.	4,395,365							4,224,560	2969,000	89,589
3312851	Ferroalloys and other additives produced in blast furnaces ²	Thousand s.tons.	606	505	94,056	(D)	(D)	(D)	(D)	72	682	106,168
3312101	Steel ingot:											
	As reported in Census of Manufactures, total.....		xxx	xxx	77,771	xxx	xxx	xxx	xxx	xxx	xxx	51,938
	As reported on Annual Form MA-33B ⁴		xxx	xxx	75,015	xxx	25,741	xxx	49,274	xxx	xxx	xxx
3312201	Semifinished steel shapes and forms:											
	As reported in Census of Manufactures, total.....		xxx	xxx	1,755,758	xxx	xxx	xxx	xxx	xxx	xxx	1,616,596
	As reported on Annual Form MA-33B ⁴		xxx	xxx	1,588,898	xxx	5592,432	xxx	51,166,466	xxx	xxx	xxx
3312301	Plates:											
	As reported in Census of Manufactures, total.....		xxx	xxx	903,661	xxx	xxx	xxx	xxx	xxx	xxx	663,677
	As reported on Annual Form MA-33B ⁴		xxx	xxx	891,445	xxx	804,651	xxx	86,794	xxx	xxx	xxx
3312401	Hot-rolled sheet and strip:											
	As reported in Census of Manufactures, total.....		xxx	xxx	2,082,367	xxx	xxx	xxx	xxx	xxx	xxx	1,695,423
	As reported on Annual Form MA-33B ⁴		xxx	xxx	2,029,808	xxx	51,697,052	xxx	5332,756	xxx	xxx	xxx
3312501	Tin,terne plate and black plate:											
	As reported in Census of Manufactures, total.....		xxx	xxx	1,089,571	xxx	xxx	xxx	xxx	xxx	xxx	873,193
	As reported on Annual Form MA-33B ⁴		xxx	xxx	1,096,107	xxx	1,093,000	xxx	3,107	xxx	xxx	xxx
3312601	Structural shapes and pilings:											
	As reported in Census of Manufactures, total.....		xxx	xxx	570,555	xxx	xxx	xxx	xxx	xxx	xxx	506,942
	As reported on Annual Form MA-33B ⁴		xxx	xxx	564,082	xxx	521,595	xxx	42,487	xxx	xxx	xxx
3312701	Hot-rolled bars and bar shapes:											
	As reported in Census of Manufactures, total.....		xxx	xxx	1,406,163	xxx	xxx	xxx	xxx	xxx	xxx	1,128,190
	As reported on Annual Form MA-33B ⁴		xxx	xxx	1,401,153	xxx	1,247,750	xxx	153,403	xxx	xxx	xxx

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3A.—QUANTITY AND VALUE OF BLAST FURNACE AND STEEL MILL PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	Production	1958						1954		
				Shipments including interplant transfers						Produced and consumed in the same plant in manufacture of other products	Total shipments and interplant transfers	
				Total		Shipments to other companies		Transfers to other plants of the same company			Quantity	Value
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)			
3312901	Steel works and rolling mill products--Continued Other steel mill shapes and forms (except wire, pipe, cold-rolled sheet, strip and bar, forgings and nails and spikes): As reported in Census of Manufactures, total..... As reported on Annual Form MA-33B ⁴		xxx	xxx	196,344	xxx	xxx	xxx	xxx	xxx	xxx	241,592
3392101	Steel wire: As reported in Census of Manufactures: Made in steel works (Industry 3312)..... Made in wire drawing (Industry 3392) and other industries..... Total, all industries..... As reported on Annual Form MA-33B ⁴		xxx	xxx	343,254	xxx	xxx	xxx	xxx	xxx	xxx	288,742
			xxx	xxx	210,544	xxx	xxx	xxx	xxx	xxx	xxx	176,250
			xxx	xxx	553,798	xxx	xxx	xxx	xxx	xxx	xxx	464,992
			xxx	xxx	556,712	xxx	507,412	xxx	49,300	xxx	xxx	xxx
3393001	Pipe and tube: As reported in Census of Manufactures: Made in steel works (Industry 3312)..... Made in pipe (Industry 3393) and other industries..... Total, all industries..... As reported on Annual Form MA-33B ⁴		xxx	xxx	1,076,788	xxx	xxx	xxx	xxx	xxx	xxx	1,041,670
			xxx	xxx	649,998	xxx	xxx	xxx	xxx	xxx	xxx	509,461
			xxx	xxx	1,726,786	xxx	xxx	xxx	xxx	xxx	xxx	1,551,131
			xxx	xxx	1,670,777	xxx	51,590,487	xxx	579,590	xxx	xxx	xxx
3399101	Cold-rolled steel sheet and strip: As reported in Census of Manufactures: Made in steel works (Industry 3312)..... Made in cold-rolling (Industry 3399) and other industries..... Total, all industries..... As reported on Annual Form MA-33B ⁴		xxx	xxx	1,830,086	xxx	xxx	xxx	xxx	xxx	xxx	1,498,449
			xxx	xxx	253,539	xxx	xxx	xxx	xxx	xxx	xxx	144,042
			xxx	xxx	2,083,625	xxx	xxx	xxx	xxx	xxx	xxx	1,642,491
			xxx	xxx	2,073,358	xxx	51,831,373	xxx	524,985	xxx	xxx	xxx
3399201	Cold-finished steel bars and bar shapes: As reported in Census of Manufactures: Made in steel works (Industry 3312)..... Made in cold-rolling (Industry 3399) and other industries..... Total, all industries..... As reported on Annual Form MA-33B ⁴		xxx	xxx	124,942	xxx	xxx	xxx	xxx	xxx	xxx	105,206
			xxx	xxx	208,384	xxx	xxx	xxx	xxx	xxx	xxx	171,872
			xxx	xxx	333,326	xxx	xxx	xxx	xxx	xxx	xxx	277,078
			xxx	xxx	331,530	xxx	317,523	xxx	14,007	xxx	xxx	xxx
33912--	Open die or smith forgings: Made in steel works (Industry 3312)..... Made in steel forgings (Industry 3391) and other industries..... Total, all industries ⁶	S. tons.....	xxx	103,745	101,745	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	101,999
3391211	Carbon steel.....	do.....	xxx	146,064	97,742						(NA)	86,324
3391231	Alloy steel.....	do.....	xxx	249,809	199,487						(NA)	188,323
3391251	Stainless steel.....	do.....	xxx	110,956	54,503						(NA)	70,599
3391200	Open die or smith forgings, not specified by grade.....	do.....	xxx	123,013	122,273	(NA)	(NA)	(NA)	(NA)	(NA)	51,733	103,714
			xxx	7,459	17,803						6,486	14,010
			xxx	8,381	4,908					xxx		

See footnotes at end of table.

GROUP 3A

GROUP 35

Table 3A.—QUANTITY AND VALUE OF BLAST FURNACE AND STEEL MILL PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	Production	1958						1954			
				Shipments including interplant transfers						Produced and consumed in the same plant in manufacture of other products	Total shipments and interplant transfers		
				Total		Shipments to other companies		Transfers to other plants of the same company			Quantity	Value	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)				
34810--	Steel works and rolling mill products—Continued Nails, spikes, brads, and tacks: Made in steel works (Industry 3312)..... Made by wire drawers (Industry 3392)..... Made in nails and spikes industry (Industry 3481) and other industries.... Total, all industries..... Steel wire nails, spikes and brads: Bright..... Galvanized..... Cement-coated..... Other..... Steel wire staples..... Steel wire tacks..... Steel cut nails, spikes and brads (including horseshoe nails and track spikes)..... Steel cut tacks, including thumb tacks: Quantity reported..... Quantity not reported... Nonferrous nails, spikes, brads, and tacks..... Ferrous nails, spikes, brads and tacks, not specified by kind..... Nails, spikes, brads and tacks, not specified by kind..... S.tons..... do..... do..... do..... do..... do..... do..... S.tons..... S.tons..... 	xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx xxx	xxx xxx xxx xxx 293,350 73,114 63,133 28,423 81,237 1,577 87,889 10,365 ... 1,953 xxx xxx 4,021	62,588 20,671 14,359 9,643 20,758 863 17,613 6,429 1,560 2,051 1,227 4,021	}	(NA)	(NA)	(NA)	(NA)	}	xxx xxx xxx xxx 407,861 82,017 73,559 30,064 (NA) 78,450 13,617 ... (NA) xxx xxx xxx	98,496 12,371 42,239 153,106 66,359 19,376 12,670 9,646 15,844 13,495 7,465 568 5,429 xxx xxx 2,254

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

xxx Not applicable.

¹Data for 1954 are not comparable due to different methods used to collect data for integrated coke ovens, blast furnaces and steel works. In the 1958 Census a single report was received covering these activities wherever such operations were performed at a single physical location. In the 1954 Census separate reports were received for: (a) coke ovens (Industry 2932); (b) blast furnaces (Industry 3311); and (c) steel works (Industry 3312).

²Excludes an indeterminate amount of slag processed by slag processors under contractual arrangements made with steel companies.

³Data for electric furnace ferroalloys are shown in the report for SIC Industry 3313, Electrometallurgical Products.

⁴Excludes shipments of steel processed on a conversion basis for nonsteel producing companies. Detailed data by shape and grade are shown in tables 3B and 3C of this report. Net shipment figures are shown in table 3D.

⁵A small amount of transfers to other plants of the same company are included with shipments to other companies. See footnote 2 of table 3B for specific commodities.

⁶These figures are not strictly comparable with tonnage figures shown in Facts for Industry Series M33C, "Commercial Steel Forgings," in that the latter includes only forgings "for sale," whereas the 1958 and 1954 Censuses of Manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the monthly facts for Industry series is not possible. Forgings produced and consumed within the same plant are not included in either the Census or the Facts for Industry figures. The annual totals reported in the monthly Facts for Industry survey for open die or smith forgings were as follows:

Item	1958	1954
	(short tons)	(short tons)
Carbon.....	92,096	165,693
Alloy, including stainless.....	163,480	185,995

1958 CENSUS OF MANUFACTURES

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TABLE 3B.—STEEL MILL PRODUCTS: RECEIPTS, PRODUCTION, CONSUMPTION, AND SHIPMENTS, 1958

Code	Product	Receipts ¹ (short tons)	Production (short tons)	Products consumed in producing plants (short tons)			Shipments ¹					
				In the manufacture of other steel shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies	Total		To other companies		Transfers to other plants of the same company	
							Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)
CARBON STEEL												
3312111	Ingot.....	376,691	78,578,866	78,426,002	76,181	12,721	377,869	26,946	44,306	4,050	333,563	22,896
3312211	Semifinished shapes and forms: Blooms, billets, slabs, sheet bars, and tin-plate bars.....	10,317,226	53,194,460	57,552,332	62,664	47,260	10,724,376	1,013,799	2,345,982	242,419	8,378,394	771,380
3312215	Tube rounds.....	723,067	2,132,882	2,157,238	...	632	708,997	91,795	175,180	22,831	533,817	68,964
3312217	Skelp.....	876,778	3,430,286	3,455,027	...	2,832	864,370	97,213	665,624	72,200	198,746	25,013
3312219	Wire rods.....	859,423	4,164,930	3,546,130	27,902	2,906	1,400,738	212,971	929,994	137,402	470,744	75,569
3312311	Finished shapes and forms: Plates: Floor plates.....	1,801	147,408	667	199	2,667	147,248	20,745	141,133	19,976	6,115	769
3312315	Plates, other than floor plates.....	910,666	5,793,828	925,890	60,830	87,812	5,675,555	734,443	5,048,708	651,321	626,847	83,122
3312411-13	Sheet and strip: Sheet: Hot-rolled and enameling...	2,604,869	8,480,999	2,428,967	39,886	34,561	8,649,935	1,018,884	6,182,386	748,995	2,467,549	269,889
3399111	Cold-rolled.....	1,235,837	11,308,623	994,042	87,985	23,568	11,318,684	1,539,307	9,532,192	1,320,256	1,786,492	219,051
3312414	Galvanized.....	37,456	2,802,601	18,195	121,931	4,661	2,680,361	457,490	2,589,622	443,363	90,739	14,127
3312412 and 19	Electrical (sheet and strip).....	...	42,478	...	...	...	41,269	9,777	41,269	9,777	...	...
3312415	Long termes.....	1,203	125,804	819	...	...	125,702	23,821	125,702	23,821	(2)	(2)
3312417	Strip: Hot-rolled.....	453,794	1,381,738	437,159	165,553	2,691	1,204,990	167,120	1,101,902	153,241	103,088	13,879
3399115	Cold-rolled.....	213,758	848,856	193,633	29,318	2,554	824,658	187,256	768,585	175,894	56,073	11,362
3312418	Galvanized.....	1,633	202,083	917	20,655	63	178,436	36,500	178,086	36,435	350	65
3312521-22	Tin mill products: Black plate (including chemically treated black plate).....	17,872	579,943	8,355	2,227	662	616,564	89,293	595,793	86,186	20,771	3,107
3312524	Tin plate: Hot dipped.....	...	426,068	...	...	104	442,505	87,372	442,505	87,372	...	...
3312525	Electrolytic.....	259	4,852,868	(D)	...	2,019	5,081,353	919,442	5,081,353	919,442	...	...
3312527	Terne plates (short termes)...	39,006	4,486,611	6,344	47,733	35,989	4,434,416	557,276	4,109,519	515,127	324,897	42,149
3312611, 13 and 15	Structural shapes and piling...	39,006	4,486,611	6,344	47,733	35,989	4,434,416	557,276	4,109,519	515,127	324,897	42,149
3312711	Bars: Hot-rolled bars, except concrete reinforcing: Hollow drill steel.....	881,547	5,369,581	822,846	297,019	32,561	5,020,711	715,716	4,476,063	639,195	544,648	76,521
3312715	All other.....	...	...	...	...	...	...	...	...	...	...	...
3312721	Concrete reinforcing bars: Rolled from new billets....	11,518	2,276,719	4,698	71,273	9,096	2,166,546	279,782	1,909,160	249,015	257,386	30,767
3312725	Rolled from old materials (rails, axles, etc.).....	13,075	186,036	...	...	...	186,252	25,929	186,252	25,929	...	...
3399211	Cold finished bars.....	10,385	927,925	84	1,067	402	942,442	210,942	907,422	203,790	35,020	7,152
3312727	Tool-steel bars.....	432	6,856	394	...	149	7,118	6,010	6,160	5,158	958	852
3312911	Rails, wheels, and track accessories: Rails: Standard tee (over 60 lb. per yard).....	21,061	553,649	(D)	5,441	11,026	533,648	60,803	521,095	59,452	12,553	1,351
3312912-13	All other (light tee, girder, guard, etc.).....	372	35,910	(D)	1,179	338	38,188	5,813	34,323	5,230	3,865	583
3312914	Rail joints and tie plates...	248	153,499	...	3,612	2,092	146,661	21,266	146,661	21,266	...	...
3312915	Wheels, rolled (including tires and rims).....	(D)	169,599	...	(D)	1,576	165,765	43,140	161,149	41,114	4,616	2,026
3393011	Pipes and tubes: Standard pipe.....	36,939	2,238,807	...	29,353	9,727	2,220,801	418,680	2,150,584	405,647	70,217	13,033
3393012	Line pipe.....	2,452	2,422,514	(D)	2,802	341	2,392,996	438,249	2,374,692	435,105	18,304	3,144
3393013	Oil country goods.....	1,738	1,117,900	...	(D)	(D)	896,942	189,994	896,942	189,994	...	...
3393014	Pressure tubing.....	6,525	212,068	3,510	4,099	215	219,584	84,443	192,239	74,540	27,345	3,903
3393015	Mechanical tubing.....	37,513	655,925	12,518	21,564	179	630,048	189,041	616,314	185,710	13,734	3,331
3393019	Miscellaneous.....	19,308	254,234	(D)	1,272	80	266,405	62,287	241,998	56,883	24,407	5,404
3392111	Wire: Plain wire.....	77,160	2,059,965	65,696	403,530	8,235	1,613,850	366,709	1,471,453	332,331	142,397	34,378
3392115	Galvanized wire.....	15,387	351,130	13,635	26,103	1,735	312,460	81,255	267,312	69,701	45,148	11,554
3392119	Other coated wire.....	3,952	88,800	1,737	5,298	...	82,720	35,352	80,897	34,574	1,823	778

See footnotes at end of table.

GROUP 35

1958 CENSUS OF MANUFACTURES

Table 3B.—STEEL MILL PRODUCTS: RECEIPTS, PRODUCTION, CONSUMPTION, AND SHIPMENTS, 1958—Continued

Code	Product	Receipts ¹ (short tons)	Production (short tons)	Products consumed in producing plants (short tons)			Shipments ¹					
				In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies	Total		To other companies		Transfers to other plants of the same company	
							Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)	Quantity (short tons)	Value f.o.b. plant (\$1,000)
	Finished shapes and forms—Con.											
	Wire products made in steel mills and wire drawing plants: ²											
3481025	Nails and staples.....	3,299	426,537	...	3,307	493	429,020	99,229	415,146	96,032	13,874	3,197
3489511	Barbed and twisted wire...	37	88,319	...	9	31	88,487	17,919	88,487	217,919	(2)	(2)
3489321	Wire fence, woven and welded.....	14,771	157,492	...	1,198	16	176,152	40,502	176,152	40,502	...	...
3489521	Bale ties.....	(D)	53,336	...	...	(D)	55,034	12,082	54,535	11,974	499	108
3489211	Wire rope and cable.....	344	75,769	(D)	...	343	77,679	53,998	58,925	42,124	18,754	11,874
3489231	Wire strand.....	(D)	74,272	(D)	(D)	(D)	71,295	28,673	69,916	28,181	1,379	492
3489411	Woven wire netting.....	(D)	107,100	...	...	(D)	106,988	25,992	106,988	25,992	...	...
3312919	Other rolled and drawn carbon steel products.....	1,754	214,210	...	8,116	802	207,887	41,335	204,762	40,089	3,125	1,246
	ALLOY STEEL (EXCEPT STAINLESS)											
3312131	Ingot.....	63,283	5,699,114	5,433,774	200,245	1,239	71,375	13,717	17,574	3,105	53,801	10,612
3312231	Semifinished shapes and forms: Blooms, billets, slabs, and sheet bars.....	636,295	3,717,183	3,378,818	70,117	3,404	872,882	155,599	325,417	63,585	547,465	92,014
3312235-37	Tube rounds and skelp.....	260,007	444,134	465,417	...	443	233,364	50,333	32,013	7,765	201,351	42,568
3312239	Wire rods.....	16,058	65,845	45,090	7,907	...	27,494	6,674	27,494	6,674	(2)	(2)
3312331	Finished shapes and forms: Plates.....	2,861	337,325	1,679	(D)	(D)	329,467	95,137	314,761	92,234	14,706	2,903
	Sheet and strip: Sheet:											
3312431	Hot-rolled.....	19,512	252,686	20,220	1,951	129	244,511	53,688	223,442	48,505	21,069	5,183
3399131	Cold-rolled.....	(D)	120,520	(D)	...	(D)	121,449	25,155	212,449	225,155	(2)	(2)
3312435 and 39	Electrical (sheet and strip).....	4,787	431,690	(D)	11,776	...	412,657	134,538	412,657	134,538	...	...
	Strip:											
3312437	Hot-rolled.....	6,601	35,197	6,743	...	...	32,178	7,928	28,034	6,901	4,144	1,027
3399135	Cold-rolled.....	(D)	23,677	13,228	(D)	...	13,203	11,436	9,597	9,465	3,606	1,971
3312631	Structural shapes.....	(D)	42,270	...	(D)	204	39,812	6,806	37,956	6,468	1,856	338
	Bars:											
3312731	Hot-rolled.....	115,789	1,252,215	93,901	52,116	1,384	1,192,103	241,192	1,055,874	214,504	136,229	26,688
3399231	Cold-finished.....	32	163,571	(D)	...	33	158,763	58,941	146,217	54,064	12,546	4,877
	Tool steel bars:											
3312733	High speed.....	5,486	8,104	(D)	21	87	12,684	33,707	10,956	30,093	1,728	3,614
3312735	Other than high speed...	705	40,997	570	233	203	41,376	49,609	35,175	42,301	6,201	7,308
	Pipe and tubes:											
3393033	Oil country goods.....	(D)	240,713	...	(D)	...	473,879	190,690	202,503	57,817	112,472	44,775
3393034	Pressure tubing.....	112	39,809	120	(D)	(D)			34,267	23,169		
3393035	Mechanical tubing.....	46,070	203,038	32,879	...	32			123,455	63,926		
3393031-32 and 35	Standard, line, and miscellaneous.....	83	6,738	...	(D)	(D)			1,182	1,003		
3392131-33 and 39	Wire.....	1,280	42,412	1,030	7,911	...	33,976	25,154	32,625	24,264	1,351	890
3312939	Other rolled and drawn alloy steel products.....	...	10,466	...	...	...	10,882	9,439	10,882	9,439	...	...
	STAINLESS STEEL											
3312151	Ingot.....	46,511	900,793	883,761	4,715	210	49,469	34,352	18,558	18,586	30,911	15,766
3312251	Semifinished shapes and forms: Blooms, billets, slabs, and sheet bars.....	166,473	671,326	632,238	398	721	202,581	130,514	38,175	26,945	152,670	90,958
3312255-59	Tube rounds and wire rods...	28,507	47,201	43,973	...	23			11,736	12,611		
3312351	Finished shapes and forms: Plates.....	4,250	37,178	4,127	6,993	143	33,112	41,120	33,112	41,120	...	...
	Sheet and strip: Sheet:											
3312451	Hot-rolled.....	103,096	86,686	61,686	(D)	(D)	108,214	65,148	38,127	36,562	70,087	28,586
3399151	Cold-rolled.....	8,144	101,687	5,761	75	175	97,722	121,382	297,722	212,382	(2)	(2)
	Strip:											
3312455	Hot-rolled.....	78,914	79,470	75,917	...	...	80,358	54,914	280,358	254,914	(2)	(2)
3399155	Cold-rolled.....	12,796	190,125	17,515	4,253	19	179,503	188,822	166,810	179,221	12,693	9,601
	Bars:											
3312751	Hot-rolled.....	7,037	38,531	4,619	494	86	39,741	49,208	32,395	41,555	7,346	7,653
3399251	Cold-finished.....	403	47,469	(D)	(D)	(D)	46,946	61,647	45,587	59,669	1,359	1,978
	Pipe and tubes:											
3393051	Pressure tubing.....	532	17,941	601	34	...	18,333	52,949	218,333	252,949	(2)	(2)
3393055	Mechanical tubing.....	4,006	9,803	2,821	...	...	10,858	43,744	210,858	243,744	(2)	(2)
3392151	Wire.....	1,266	29,545	737	(D)	(D)	29,384	48,242	28,632	46,542	752	1,700
3312959	Other rolled and drawn stainless steel products...	180	10,059	65	(D)	(D)	10,217	12,428	10,217	12,428	...	...

Source: Facts for Industry Series M33B. D Withheld to avoid disclosing figures of individual companies. ¹Excludes receipts and shipments of steel processed on a conversion basis for nonsteel producing companies. ²Interplant transfers are included with shipments to other companies. ³Represents the quantity and value of shipments by steel works and wire drawing plants of those wire products which are defined as "mill shapes" as distinct from fabricated products. Total shipments of these products by all establishments in 1958 are shown in the preliminary report for the 1958 Census of Manufactures for Industries 3481 and 3489.

1958 CENSUS OF MANUFACTURES

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Table 3C.--STEEL MILL PRODUCTS: RECEIPTS, PRODUCTION, CONSUMPTION, AND SHIPMENTS, 1954

Product code	Product	Receipts ¹	Production	Products consumed in producing plants			Shipments ¹					
				In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies	Total		To other companies		Transfers to other plants of the same company	
							Quantity	Value	Quantity	Value	Quantity	Value
		(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)
CARBON STEEL												
3312111	Ingot.....	228,774	81,145,687	81,483,633	71,186	9,770	264,762	15,610	64,662	4,407	200,100	11,203
3312211	Semifinished shapes and forms: Blooms, billets, slabs, sheet bars, and tinplate bars.....	11,605,189	58,869,142	58,124,253	111,473	59,287	12,491,966	943,090	2,623,672	216,508	9,868,294	726,582
3312215	Tube rounds.....	931,928	3,132,041	3,153,706	...	969	950,481	87,161	118,635	12,713	831,846	74,448
3312217	Skelp.....	1,032,331	3,957,855	3,910,671	...	3,589	1,046,193	90,965	670,970	55,843	375,223	35,122
3312219	Wire rods.....	1,013,623	4,522,172	4,016,310	26,373	3,243	1,460,064	163,326	861,972	96,554	598,092	66,772
Finished shapes and forms:												
Plates:												
3312311	Floor plates.....	(D)	155,647	...	(D)	1,650	152,708	16,953	² 152,708	² 16,953	(²)	(²)
3312315	Plates, other than floor plates.....	695,495	5,884,721	717,203	89,372	89,843	5,683,058	563,689	5,243,923	521,964	439,135	41,725
Sheets and strip:												
Sheets:												
3399111	Cold-rolled.....	739,159	9,995,568	485,047	3,100	18,243	10,111,983	1,132,337	8,900,699	1,009,645	1,211,284	122,692
3312411,13	Hot-rolled and enameling.....	2,845,578	9,054,610	2,791,565	28,253	24,100	8,982,299	856,827	6,257,856	614,881	2,724,443	241,946
3312412	Electrical ³	(D)	71,600	...	...	(D)	75,866	14,490	² 75,866	² 14,490	(²)	(²)
3312415	Long ternes.....	3	150,867	...	...	6	149,997	24,495	140,752	23,398	9,245	1,097
3312414	Galvanized.....	37,371	2,347,762	14,339	153,244	5,235	2,170,733	317,236	2,071,510	303,570	99,223	13,666
Strip:												
3312417	Hot-rolled.....	476,882	1,856,800	397,374	204,174	11,685	1,749,074	196,077	1,538,969	172,510	210,105	23,567
3399115	Cold-rolled.....	134,543	1,439,619	133,153	6,460	2,947	1,470,591	240,469	1,021,476	188,678	449,115	51,791
3312418	Galvanized.....	10,330	71,366	(D)	17,346	52	68,843	13,615	66,073	13,200	2,770	415
3312419	Electrical.....	...	(³)	...	...	...	(³)	(³)	(³)	(³)	(³)	(³)
Tin mill products:												
3312521-22	Black plate (including chemically treated black plate).....	51,185	817,453	45,800	...	1,822	813,654	97,177	709,063	85,422	104,591	11,755
Tin plate:												
3312524	Hot dipped.....	927	1,316,107	...	...	143	1,251,711	220,471	1,244,339	219,434	7,372	1,037
3312525	Electrolytic.....	1,384	3,619,560	...	...	604	3,599,788	549,941	3,506,584	535,586	93,204	14,355
3312527	Terne plates (short ternes)	...	32,471	...	...	...	34,656	5,604	34,479	5,572	177	32
3312611-15	Structural shapes and piling.	54,406	5,277,731	21,753	65,668	46,100	5,206,344	502,546	4,531,387	438,169	674,957	64,377
Bars:												
Hot rolled bars, except concrete reinforcing:												
3312711	Hollow drill steel.....	9,131	34,615	(D)	796	1,956	31,722	5,739	² 31,722	² 5,739	(²)	(²)
3312715	All other.....	859,179	5,369,926	704,758	299,265	44,176	5,039,943	554,254	4,416,173	486,306	623,770	67,948
Concrete reinforcing bars:												
3312721	Rolled from new billets..	9,856	1,758,628	...	95,730	4,570	1,654,949	168,223	1,479,363	151,832	175,586	16,391
3312725	Rolled from old materials (rails, axles, etc.)....	696	233,911	...	(D)	(D)	213,479	24,242	207,205	23,743	6,274	499
3399211	Cold finished bars.....	4,387	1,028,553	105	1,460	541	1,041,262	181,581	1,018,462	178,007	22,800	3,574
3312727	Tool-steel bars.....	678	9,299	662	...	197	9,289	5,917	8,086	5,088	1,203	829
Rails, wheels, and track accessories:												
Rails:												
3312911	Standard tee (over 60 lb. per yard).....	15,842	1,113,037	(D)	8,085	7,405	1,101,294	99,939	1,067,240	97,405	34,054	2,534
3312912	Light tee (60 lb. per yard and under).....	(D)	49,564	...	(D)	386	53,427	5,950	47,264	5,248	6,163	702
3312913	All other (girder, guard, etc.).....	(D)	28,426	...	(D)	(D)	25,109	3,546	22,615	3,232	2,494	314
3312914	Rail joints and tie plates.	(D)	345,499	...	(D)	915	345,406	38,144	320,137	35,283	25,269	2,861
3312915	Wheels, rolled (including tires and rims).....	1,860	221,738	...	...	1,176	218,837	41,111	212,309	39,659	6,528	1,452
Pipe and tubes:												
3393011	Standard pipe.....	37,881	2,562,958	(D)	36,198	10,918	2,401,178	354,486	2,317,465	343,256	83,713	11,230
3393012	Line pipe.....	6,788	2,407,723	...	...	97	2,433,619	344,595	2,412,213	341,904	21,406	2,691
3393013	Oil country goods.....	5,492	2,051,410	...	5,781	1,532	1,987,043	314,312	1,957,305	309,302	29,738	5,010
3393014	Pressure tubing.....	2,321	206,147	...	1,470	606	208,318	65,333	208,318	265,333	(²)	(²)
3393015	Mechanical tubing.....	11,540	675,290	8,332	13,167	316	667,698	166,244	658,612	164,196	9,086	2,048
3393019	Miscellaneous.....	41,131	224,940	10,781	...	2,426	255,152	51,729	207,912	43,554	47,240	8,175

See footnotes at end of table.

GROUP 3A

GROUP 35

Table 3C.—STEEL MILL PRODUCTS: RECEIPTS, PRODUCTION, CONSUMPTION, AND SHIPMENTS, 1954—Continued

Product code	Product	Receipts ¹	Production	Products consumed in producing plants			Shipments ¹					
				In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies	Total		To other companies		Transfers to other plants of the same company	
							Quantity	Value	Quantity	Value	Quantity	Value
		(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)
CARBON STEEL—Continued												
Finished shapes and forms—Con.												
Wire:												
3392111	Plain wire.....	63,240	1,999,135	135,099	136,829	7,544	1,731,980	309,131	1,564,029	277,198	167,951	31,933
3392115	Galvanized wire.....	9,346	424,938	39,170	20,090	2,387	358,336	76,315	309,413	66,940	48,923	9,375
3392119	Other coated wire.....	3,069	68,537	...	610	...	67,779	22,759	67,492	22,663	287	96
Wire products made in steel mills and wire drawing plants: ⁴												
Steel wire nails, spikes and brads:												
3481011	Bright.....	55,380	(NA)	5172	5156	51,550	392,418	62,659	(NA)	(NA)	(NA)	(NA)
3481013	Galvanized.....						79,538	18,137				
3481017	Cement-coated.....						72,324	12,455				
3481019	Other.....						9,776	2,142				
3481021	Steel wire staples and tacks.....						15,876	2,626				
3481031	Steel cut nails, spikes, and brads (including horseshoe nails).....						64,294	10,159				
3489211	Iron and steel wire rope and cable.....						83,636	53,927				
3489221	Composite strand, rope, and cable (including wire strands of different metals) (except ACSR).....						6,324	4,391				
3489231	Iron and steel wire strand (including guard rail cable).....						54,459	17,023				
3489351	Field fence.....						204,815	32,584				
3489411	Woven wire netting (poultry, fur farm, stucco, etc.).....						55,439	13,572				
3489511	Barbed and twisted wire....	55,380	(NA)	5172	5156	51,550	136,625	21,809	(NA)	(NA)	(NA)	(NA)
3489521	Wire bale ties.....						73,793	12,529				
3489531	Welded steel wire fabric:						329,383	48,298				
3489539	Concrete reinforcing mesh						51,272	12,899				
3489539	Other welded steel wire fabric.....											
3312919	Other rolled and drawn carbon steel products.....	(D)	271,112	...	(D)	2,819	269,362	41,523	264,746	40,769	4,616	754
ALLOY STEEL (EXCEPT STAINLESS)												
3312131	Ingot.....	37,478	6,319,855	6,099,121	161,299	4,265	64,898	12,048	29,996	6,607	34,902	5,441
Seminifinished shapes and forms:												
3312231	Blooms, billets, slabs, and sheet bars.....	704,914	4,012,139	3,611,238	67,573	4,686	954,892	125,133	441,620	60,882	513,272	64,251
3312235	Tube rounds and skelp.....	333,026	524,045	543,334	...	1,189	316,468	51,261	113,005	22,069	203,463	29,192
3312239	Wire rods.....	18,944	42,568	32,449	5,666	...	22,878	4,979	14,653	3,251	8,225	1,728
Finished shapes and forms:												
3312331	Flates.....	15,111	222,381	6,457	8,293	1,513	212,986	50,904	189,127	45,447	23,859	5,457
Sheets and strip:												
3312431	Hot-rolled.....	39,352	249,389	27,996	8,320	41	237,784	47,408	192,304	41,109	45,480	6,299
3399131	Cold-rolled.....	5,882	58,081	(D)	1,037	146	58,523	10,455	51,293	9,608	7,230	847
3312435	Electrical ³	(D)	600,120	(D)	(D)	...	598,472	142,579	2598,472	2142,579	(²)	(²)
Strip:												
3312437	Hot-rolled.....	11,815	31,985	7,139	4	6	36,872	6,948	19,848	4,148	17,024	2,800
3312439	Electrical.....	(³)	(³)	...	(³)	...	(³)	(³)	(³)	(³)	(³)	(³)
3399135	Cold-rolled.....	7,808	19,979	2,542	240	48	25,472	12,862	12,553	10,050	12,919	2,812
3312631	Structural shapes.....	8	39,248	...	3	162	35,511	4,396	31,910	3,891	3,601	505
Bars:												
3312731	Hot-rolled.....	142,217	1,608,339	126,164	21,874	1,360	1,583,677	260,082	1,403,969	232,597	179,708	27,485
3399231	Cold-finished.....	421	206,489	...	...	153	200,533	52,934	188,364	49,858	12,169	3,076
Tool steel bars:												
3312733	High speed.....	638	13,662	(D)	18	118	16,163	35,781	15,276	34,189	887	1,592
3312735	Other than high speed....	806	39,941	414	106	167	39,906	39,415	39,144	39,105	762	310

See footnotes at end of table.

Table 3C.—STEEL MILL PRODUCTS: RECEIPTS, PRODUCTION, CONSUMPTION, AND SHIPMENTS, 1954—Continued

Product code	Product	Receipts ¹	Production	Products consumed in producing plants			Shipments ¹					
				In the manufacture of other steel basic shapes and forms	In the manufacture of fabricated products	As maintenance, repair, and operating supplies	Total		To other companies		Transfers to other plants of the same company	
							Quantity	Value	Quantity	Value	Quantity	Value
		(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)	(Short ton)	(\$1,000)
	ALLOY STEEL (EXCEPT STAINLESS)—Continued											
	Finished shapes and forms—Con.											
	Pipe and tubes:											
3393033	Oil country goods.....	...	371,865	...	...	...	362,346	71,771	² 362,346	² 71,771	(²)	(²)
3393034	Pressure tubing.....	...	45,726	...	...	...	47,545	35,012	² 47,545	² 35,012	(²)	(²)
3393035	Mechanical tubing.....	49,495	185,897	11,228	...	75	221,739	84,168	122,544	52,969	99,195	31,199
3393031-32, 39	Other, including standard and line.....	(D)	14,967	...	...	(D)	15,802	3,431	² 15,802	² 3,431	(²)	(²)
3392131-33-39	Wire.....	276	55,047	...	12,401	5	40,292	23,753	37,084	22,605	3,208	1,148
3312939	Other rolled and drawn alloy steel products.....	(D)	17,044	...	(D)	(D)	17,206	7,565	17,153	7,548	53	17
	STAINLESS STEEL											
3312151	Ingots.....	61,962	850,549	843,446	731	182	59,709	24,280	23,481	8,783	36,228	15,497
3312251	Semifinished shapes and forms: Blooms, billets, slabs, and sheet bars.....	287,539	633,947	568,584	650	574	325,984	138,282	103,108	46,122	222,876	92,160
3312255-57-59	Tube rounds, skelp and wire rods.....	17,983	26,974	28,337	...	3	16,447	12,399	5,392	3,761	11,055	8,638
3312351	Finished shapes and forms: Plates.....	6,674	36,945	5,422	3,116	34	34,618	32,131	² 34,618	² 32,131	(²)	(²)
	Sheets and strip:											
	Sheets:											
3312451	Hot-rolled.....	110,528	113,172	95,687	90	412	111,589	65,378	26,741	31,334	84,848	34,044
3399151	Cold-rolled.....	10,010	88,367	5,489	...	100	86,999	85,445	80,906	80,294	6,093	5,151
	Strip:											
3312455	Hot-rolled.....	19,492	21,983	22,658	...	5	19,326	10,370	19,326	10,370	...	...
3399155	Cold-rolled.....	5,242	189,412	5,010	5,317	659	180,670	160,923	178,037	158,325	2,633	2,598
	Bars:											
3312751	Hot-rolled.....	7,706	36,835	5,254	104	103	37,963	34,537	30,579	30,320	7,384	4,217
3399251	Cold-finished.....	64	41,191	...	...	9	38,256	42,563	37,804	42,126	452	437
	Pipe and tubes:											
3393051	Pressure tubing.....	475	13,042	(D)	...	...	13,266	35,303	11,930	32,116	1,336	3,187
3393055	Mechanical tubing.....	2,458	6,385	2,268	...	...	7,570	24,747	6,465	22,586	1,105	2,161
3392151	Wire.....	4,969	29,663	530	184	...	26,722	33,034	25,999	32,019	723	1,015
3312959	Other rolled and drawn stainless steel products....	890	2,595	...	...	...	3,442	3,814	² 3,442	² 3,814	(²)	(²)

Source: Facts for Industry Series M33B (previously M22B).

D Withheld to avoid disclosing figures of individual companies.

NA Not available.

¹Excludes receipts and shipments of steel processed on a conversion basis for non-steel producing companies.²Interplant transfers are included with shipments to other companies.³Electrical strip is included with electrical sheets.⁴Represents the quantity and value of shipments by steel works and wire drawing plants of those wire products which were defined as "mill shapes" as distinct from fabricated products. Total shipments of these products by all establishments in 1954 are shown in the preliminary report for the 1958 Census of Manufactures for industries 3481 and 3489.⁵Not strictly comparable with data published for other years in Facts for Industry Series M33B, "Steel Mill Products" in that 1954 data represent receipts and consumption for steel works only, whereas comparable data in the M33B Series represent receipts and consumption for steel works and wire drawing establishments.

Table 3D.—STEEL MILL PRODUCTS: NET SHIPMENTS, 1954-1958

(Short tons)

Product	Net shipments ¹				
	1958	1957	1956	1955	1954
Total.....	60,584,055	80,211,365	84,283,716	84,822,230	64,718,336
Carbon steel, total.....	56,702,696	74,640,468	77,923,704	78,318,818	60,319,624
Ingots and semifinished shapes and forms.....	1,156,263	2,107,238	2,972,497	2,938,624	1,687,511
Finished shapes and forms:					
Plates:					
Floor plates.....	148,313	212,382	221,595	191,382	153,921
Other than floor plates.....	4,913,531	8,622,405	7,338,988	6,417,025	5,166,778
Sheet and strip:					
Sheets:					
Hot-rolled and enameling.....	6,119,513	7,500,839	8,184,360	9,032,713	6,189,074
Cold-rolled.....	10,194,400	11,680,593	13,009,611	14,524,025	9,394,167
Galvanized.....	2,769,497	2,363,298	2,945,915	2,862,542	2,291,841
Electrical (sheet and strip).....	41,269	60,557	89,922	74,006	75,600
Long terms.....	124,499	167,746	176,242	226,487	150,000
Strip:					
Hot-rolled.....	919,440	1,264,927	1,605,039	1,793,369	1,488,051
Cold-rolled.....	642,772	815,426	1,154,153	1,586,615	1,345,455
Galvanized.....	197,521	139,347	160,626	109,063	75,911
Tin mill products:					
Black plate (including chemically treated black plate).....	601,581	576,188	728,395	774,284	764,291
Tin plate:					
Hot-dipped.....	442,609	642,997	936,390	1,072,592	1,250,927
Electrolytic.....	5,083,113	4,564,117	4,493,385	4,364,489	3,599,008
Terne plate (short terms).....		20,876	31,536	39,552	34,656
Structural shapes.....	4,479,132	7,151,334	5,756,535	5,220,946	5,263,706
Piling.....		520,333	435,494	350,048	
Bars:					
Hot-rolled bars (except concrete reinforcing):					
Hollow drill steel.....	4,468,744	6,089,773	6,806,763	18,590	25,343
All other.....				6,281,867	4,524,205
Concrete reinforcing bars:					
Rolled from new billets.....	2,408,574	2,438,813	2,541,081	2,188,116	1,745,393
Rolled from old materials (rails, axles, etc.).....		189,911	293,209	277,099	224,244
Cold-finished bars.....	933,526	1,168,363	1,506,677	1,640,283	1,038,876
Tool-steel bars.....	6,835	10,586	10,324	11,094	8,808
Rails, wheels, and track accessories:					
Rails:					
Standard tee (over 60 lb. per yard).....	529,054	1,205,569	1,201,650	1,099,936	1,100,942
Light tee (60 lb. per yard and under).....	39,333	79,939	83,431	62,354	54,043
All other (girder, guard, etc.).....					28,779
Rail joints and tie plates.....	152,117	337,446	421,468	439,369	348,139
Wheels, rolled (including tires and rims).....	174,944	408,374	371,835	315,110	218,153
Pipe and tubes:					
Standard pipe.....	2,222,942	2,935,311	3,111,647	3,111,128	2,410,413
Line pipe.....	2,393,687	3,801,928	3,113,950	2,838,057	2,426,928
Oil country goods.....	895,864	2,295,832	2,107,107	2,109,710	1,988,864
Pressure tubing.....	217,373	327,875	318,563	252,111	208,073
Mechanical tubing.....	614,278	778,367	940,995	911,341	669,641
Miscellaneous.....	248,449	295,250	317,987	259,214	216,447
Wire:					
Plain.....	1,948,455	2,168,962	2,529,404	2,694,231	1,813,113
Galvanized.....	324,911	356,863	425,246	467,027	371,467
Other coated wire.....	84,066	84,910	91,990	83,948	65,320
Wire products: ²					
Nails and staples.....	429,521	462,211	574,257	667,145	
Barbed and twisted wire.....	88,490	59,382	75,263	115,105	
Wire fence, woven and welded.....	162,595	195,763	237,309	276,390	
Bale ties.....	54,999	72,989	75,170	89,567	
Wire rope.....	77,678	96,102	103,585	100,010	
Wire strand.....	70,781	76,286	80,139	73,143	
Woven wire netting.....	106,976	102,343	131,102	127,114	
Other rolled and drawn carbon steel products.....	215,051	190,717	212,869	231,997	275,238

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3D.—STEEL MILL PRODUCTS: NET SHIPMENTS, 1954-1958—Continued
(Short tons)

Product	Net shipments ¹				
	1958	1957	1956	1955	1954
Alloy steel (except stainless), total.....	3,417,518	4,964,539	5,691,871	5,859,823	3,959,870
Ingot and semifinished shapes and forms (blooms, billets, etc.).....	512,827	721,822	870,080	906,921	509,452
Finished shapes and forms:					
Plates.....	329,117	516,630	437,990	293,945	207,681
Sheets and strip:					
Sheet:					
Hot-rolled.....	227,079	318,821	398,536	383,765	206,793
Cold-rolled.....	36,800	52,714	64,889	68,921	53,824
Electrical (sheet and strip).....	419,646	578,865	696,282	668,921	515,648
Strip:					
Hot-rolled.....	25,577	36,722	43,444	40,364	25,067
Cold-rolled.....	9,995	14,216	17,807	16,024	17,952
Structural shapes.....	40,004	68,905	50,023	77,454	35,668
Bars:					
Hot-rolled.....	1,129,814	1,501,657	1,873,251	2,165,823	1,464,694
Cold-finished.....	158,764	232,626	305,220	311,045	200,265
Tool-steel bars:					
High speed.....	7,306	15,197	18,760	20,187	15,661
Other than high speed.....	41,107	58,094	66,683	54,458	39,373
Pipe and tubes:					
Oil country goods.....	427,993	473,943	427,996	447,581	362,346
Mechanical tubing.....		227,575	271,048	271,092	172,319
Pressure tubing.....		74,845	68,409	36,521	47,545
Standard, line, and miscellaneous.....		6,317	2,180	3,858	15,865
Wire.....	40,607	50,096	60,627	55,933	52,422
Other rolled and drawn alloy steel products.....	10,882	15,494	18,646	37,010	17,295
Stainless steel, total.....	463,841	606,358	668,141	643,589	438,842
Ingot and semifinished shapes and forms (blooms, billets, etc.).....	16,626	25,484	(¹)	69,343	36,796
Finished shapes and forms:					
Plates.....	35,998	47,316	48,371	33,975	31,094
Sheet and strip:					
Sheet:					
Hot-rolled.....	5,998	11,606	79,578	3,117	1,563
Cold-rolled.....	89,828	100,979	123,192	111,609	77,089
Strip:					
Hot-rolled.....	1,444	(¹)	3,377	(¹)	(¹)
Cold-rolled.....	170,979	236,163	227,966	270,673	181,404
Bars:					
Hot-rolled.....	33,284	48,625	61,664	36,227	30,464
Cold-finished.....	46,566	65,312	65,701	62,875	38,201
Pipe and tubes:					
Pressure tubing.....	17,835	27,086	25,581	13,300	12,791
Mechanical tubing.....	6,852	8,956	9,774	7,713	5,112
Wire.....	28,354	31,208	39,185	36,787	21,937
Other rolled and drawn stainless steel products.....	10,077	4,205	5,711	3,861	2,552

Source: Facts for Industry Series M33B (formerly M22B).

¹Derived by subtracting the steel mills' receipts of each steel mill shape from the total of shipments to other companies, transfers to other plants, and tonnage consumed in the steel mill in the production of fabricated products and as maintenance, repair, and operating supplies. For practical purposes, net shipments amount to zero for some products. Due to material in transit, this results in negative figures for a few items. Negative figures have been replaced by footnote one where these occur, but they have been subtracted from the total net shipments. Where products are grouped together for calculation of net shipments, some of the individual products within the group may have negative figures. In such cases, the negative figures for the individual products were subtracted from the net shipments of the other products and an over-all net shipments total is shown.

²Represents wire products produced within steel works and wire drawing establishments.

³Also includes steel cut nails, spikes, and brads and welded steel wire fabric.

**1958 CENSUS OF MANUFACTURES
PUBLICATION PROGRAM**

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

Final Industry Reports

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

Final Area Reports

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

Final Subject Reports

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I—SUMMARY STATISTICS

VOLUME II—INDUSTRY STATISTICS

VOLUME III—AREA STATISTICS

Bureau of the Census

WASHINGTON 25, D. C.

GROUP 35

GROUP 35

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33B-1

PRIMARY COPPER INDUSTRY

(Industry Code 3331--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Primary Copper Industry amounted to \$161 million, a decrease of 3 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as

materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 14.6 thousand employees in 1958.

Table 1.--GENERAL STATISTICS FOR THE PRIMARY COPPER INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3331)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	14.6	14.7	-1
Payroll.....	Million dollars...	76.1	63.3	+20
Production workers:				
Number.....	Thousands.....	12.3	12.4	-1
Man-hours.....	Millions.....	24.5	25.0	-2
Wages.....	Million dollars...	60.8	51.2	+19
Value added by manufacture, unadjusted ².....	..do.....	165.5	163.6	+1
Value added by manufacture, adjusted ³.....	..do.....	161.1	163.3	-3
Cost of materials, fuel, electricity, and contract work.....	..do.....	(4)	(4)	(NA)
Value of shipments.....	..do.....	(4)	(4)	(NA)
Capital expenditures, new.....	..do.....	15.2	4.2	+262
Number of establishments ⁵	Number.....	29	28	+4

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

⁵Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 25

This industry includes establishments engaged primarily in smelting copper from ore and in refining copper by electrolytic or other processes. Establishments engaged in rolling, drawing, and extruding primary copper are classified in Industry 3351, Copper Rolling and Drawing. Establishments primarily engaged in recovering copper from scrap are included in Industry 3341, Secondary Nonferrous Metals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments of Industry 3331 include extensive duplication resulting from the use of the products of the smelter as materials for the refiners. Thus, the value of blister copper, which represents an intermediate stage in the production of refined copper, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials. Totals are, therefore, not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product special-

ization ratio" for this industry cannot be computed. Similarly, the exact "coverage ratio" for Industry 3331 cannot be computed.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE PRIMARY COPPER INDUSTRY (S.I.C. CODE 3331) BY REGION; 1958 AND 1954

Region and State ¹	1958										1954*	
	All employees		Production workers			Value added by manufacture		Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	No. of establishments, total ⁴	All employees, number	Value added by manufacture, unadjusted ² (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	14,556	76,101	12,282	24,473	60,840	165,475	161,077	(⁵)	15,157	29	14,680	163,614
West.....	7,075	37,243	6,021	11,821	30,015	100,553	93,224	(⁵)	(D)	17	7,268	103,524
All other divisions.....	7,481	38,858	6,261	12,652	30,825	64,922	67,853	(⁵)	(D)	12	7,412	60,090

*Revised.

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the advance reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.

⁵Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 3.--QUANTITY AND VALUE OF SMELTED AND REFINED COPPER SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Primary Copper Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments and cost of materials.")

Product code	Product	1958				1954					
		Total production	Total shipments including inter-plant transfers ¹		Produced and consumed in the same plant in the manufacture of other products	Total production	Total shipments including inter-plant transfers ²		Total shipments of products made from materials owned by others	Produced and consumed in the same plant in the manufacture of other products	
		(Short tons)	Quantity (short tons)	Value (\$1,000)		(Short tons)	Quantity (short tons)	Value (\$1,000)			
3331---	Smelted and refined copper, total...	xxx	xxx	833,662	xxx	xxx	xxx	892,285	xxx	xxx	
33311--	Copper smelter products.....	xxx	xxx	360,669	xxx	xxx	xxx	369,431	xxx	xxx	
333111	Blister and anode copper.....	1,040,383	654,316	353,446	(D)	1,037,287	3592,365	3562,886	400,642	45,559	
3331151	Matte, speiss, flue dust, residues, etc.....	119,164	113,864	7,223	(D)	36,765	35,043	6,545	...	(D)	
3331211	Refined unalloyed copper:										
	Made by secondary refiners (Industry 3341).....	30,241	51,522	26,247	4,960	xxx	xxx	17,034	xxx	xxx	
	Made by primary copper refiners (Industry 3331) and other industries.....	1,560,311	589,936	310,245		xxx	xxx	356,936	xxx	xxx	
	Total, all industries.....	1,590,552	641,458	336,492		1,458,359	644,090	373,970	886,952	10,105	
3341211	Copper-base alloys:										
	Made by primary copper refiners (Industry 3331).....	319,247	256,274	136,501	(D)	xxx	xxx	(D)	xxx	xxx	
	Made by secondary refiners (Industry 3341) and other industries.....				(D)	xxx	xxx	(D)	xxx	xxx	
	Total, all industries.....				(D)	273,511	271,269	148,884	1,863	1,015	

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

¹Figures for toll shipments are excluded but will be included in the final report for this industry.

²Excluding toll shipments.

³Consists of 179,889 short tons valued at \$105,399 thousand shipped to other companies, and 412,476 short tons valued at \$259,487 thousand shipped as transfers to other plants of the same company.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33B-2

PRIMARY LEAD INDUSTRY

(Industry Code 3332—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Primary Lead Industry amounted to \$36 million, an increase of 60 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of

some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed a decrease of 12 percent from 1954 to 1958 to a total of 3.6 thousand employees in 1958.

Table 1.—GENERAL STATISTICS FOR THE PRIMARY LEAD INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3332)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.6	4.1	-12
Payroll.....	Million dollars...	18.2	17.4	+5
Production workers:				
Number.....	Thousands.....	2.9	3.3	-12
Man-hours.....	Millions.....	5.7	6.7	-15
Wages.....	Million dollars...	13.6	13.1	+4
Value added by manufacture, unadjusted ².....	..do.....	24.2	30.8	-21
Value added by manufacture, adjusted ³.....	..do.....	36.3	22.7	+60
Cost of materials, fuel, electricity, and contract work .....	..do.....	(4)	(4)	(NA)
Value of shipments .....	..do.....	(4)	(4)	(NA)
Capital expenditures, new.....	..do.....	0.7	1.4	-50
Number of establishments with 20 or more employees ⁵	Number.....	13	13	...

NA Not available.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

⁵Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.



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GROUP 35

This Industry includes establishments engaged primarily in smelting lead from ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing or alloying lead are classified in Industry 3359, Nonferrous Metal Rolling and Drawing, N.E.C. Establishments primarily engaged in producing lead from scrap, but which are not engaged in further fabrication, are classified in Industry 3341, Secondary Nonferrous Metals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments of Industry 3332 include extensive duplication resulting from the use of the products of the smelter (lead-base bullion) as the material for the refiners. Thus, the value of the lead-base bullion which represents an intermediate stage in the production of refined lead, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials. Totals are, therefore, not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product specialization ratio" for this industry cannot be computed.

Similarly the exact "coverage ratio" for Industry 3332 cannot be computed.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PRIMARY LEAD INDUSTRY (S. I. C. CODE 3332): 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	Number of establishments, total ⁴	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total...	3,589	18,182	2,864	5,687	13,599	24,201	36,335	(⁵)	725	13	4,063	30,772

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.

⁵Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 3.—QUALITY AND VALUE OF SMELTED AND REFINED LEAD SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Primary Lead Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments and Cost of Materials")

Product code	Product	1958				1954						
		Total production	Total shipments including interplant transfers ¹		Produced and consumed in the same plant in the manu- facture of other products	Total production	Total shipments including interplant transfers ²		Total shipments of products made from materials owned by others	Produced and consumed in the same plant in the manu- facture of other products		
			Quantity	Value			Quantity	Value				
											(Short tons)	(Short tons)
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)		
3332----	Smelted and refined lead, total.....	xxx	xxx	(NA)	xxx	xxx	xxx	433,686	xxx	xxx		
33321--	Lead smelter products.....	xxx	xxx	(D)	xxx	xxx	xxx	118,926	xxx	xxx		
3332111	Base bullion.....	479,846	}	(D)	209,754	{	505,628	(NA)	118,926	(D) {		
3332151	Matte, speiss, etc.....	118,562									106,089	222,752
3332211	Refined unalloyed lead:											
	Made in secondary nonferrous metals industry (Industry 3341).....	134,252	118,238	28,536	}	(D)	{	xxx	xxx	27,545	xxx	xxx
	Made by primary lead refiners (Industry 3332) and other industries.....	524,317	402,870	91,580				xxx	xxx	101,503	xxx	xxx
	Total, all industries.....	658,569	521,108	120,116				661,890	3462,992	3129,048	134,848	52,311
33413--	Lead alloys (pig, ingot, shot, etc.):											
	Made by primary lead refiners (Industry 3332).....	}	xxx	xxx	50,523	xxx	xxx	xxx	(D)	xxx	xxx	
	Made in nonferrous rolling mills other than aluminum and copper (Industry 3359).....											
	Made in secondary nonferrous metals industry (Industry 3341) and other industries....											xxx
	Total, all industries.....	xxx	xxx	160,726	xxx	xxx	xxx	185,712	xxx	xxx		
3341311	Antimonial lead.....	245,487	242,603	61,491	(D)	257,528	257,921	80,154	5,476	(D)		
	Babbitt metal:											
3341331	Lead base.....	23,991	22,144	9,837	(D)	(NA)	21,588	10,397	865	(D)		
3341335	Tin base.....	2,957	2,364	3,959	...	(NA)	2,835	4,643	...	(D)		
3341351	Solder.....	69,570	70,483	51,518	(D)	(NA)	476,801	455,780	5,170	(D)		
3341371	Type metal.....	42,871	39,802	14,682	(D)	}	(NA)	94,079	34,738	642	(D)	
3341398	Other lead and tin-base alloys.	29,838	33,322	13,189								
3341300	Lead alloys, not specified by kind.....	xxx	xxx	6,050	...							xxx

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

xxx Not applicable.

¹Data for toll shipments are excluded but will be included in the final report for this industry.

²Excluding toll shipments.

³Consists of 447,289 short tons valued at \$124,817 thousand shipped to other companies and 15,703 short tons valued at \$4,231 thousand shipped as transfers to other plants of the same company.

⁴Consists of 67,461 short tons valued at \$48,497 thousand shipped to other companies and 9,340 short tons valued at \$7,283 thousand shipped as transfers to other plants of the same company.

GROUP 35

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33B-3

PRIMARY ALUMINUM INDUSTRY

(Industry Code 3334--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Primary Aluminum Industry shipped products valued at \$809 million, an increase of 34 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 17.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$384 million in 1958, an increase of 48 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PRIMARY ALUMINUM INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3334)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	17.4	20.6	-15
Payroll.....	Million dollars...	111.6	96.8	+15
Production workers:				
Number.....	Thousands.....	13.4	17.0	-21
Man-hours.....	Millions.....	27.7	35.3	-21
Wages.....	Million dollars...	82.8	77.2	+7
Value added by manufacture, unadjusted ².....	...do.....	397.0	264.2	+50
Value added by manufacture, adjusted ³.....	...do.....	383.8	258.9	+48
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	411.8	340.0	+21
Value of shipments ⁵.....	...do.....	808.8	604.2	+34
Capital expenditures, new.....	...do.....	85.4	26.1	+227
Number of establishments ⁶	Number.....	20	16	+25

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Primary Aluminum Industry includes establishments engaged primarily in the manufacture of aluminum from ore or from alumina and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, and extruding primary aluminum are classified in Industry 3352, Aluminum Rolling and Drawing. Establishments primarily engaged in producing aluminum from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Nonferrous Metals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Primary Aluminum Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Primary Aluminum Industry amounted to \$809 million. Of this total, \$800 million were products primary to the industry, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary products represented 100 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 100 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, totaling \$550 million of unalloyed aluminum were shipped by all producers of these products. Of this total, \$539 million, or 98 percent, were shipped by plants classified in Industry 3334, Primary Aluminum, while the remainder was shipped by plants classified in other industries. This percentage is based on shipments of unalloyed aluminum only. The data on primary products of the industry in the preceding paragraph include aluminum-base alloys as primary products for this industry. It is believed that this treatment provides the most meaningful measures of specialization and coverage for this industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PRIMARY ALUMINUM INDUSTRY (S.I.C. CODE 3334), BY REGIONS: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	17,381	111,588	13,428	27,738	82,750	397,046	383,836	808,822	85,386	20	20,626	264,201
West South Central.....	6,803	45,176	5,310	11,231	33,518	194,497	176,537	350,813	3,166	6	8,581	107,637
All other divisions.....	10,578	66,412	8,118	16,507	49,232	202,549	207,299	458,009	82,220	14	12,045	156,564

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.

Table 3.—QUANTITY AND VALUE OF REFINED ALUMINUM SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Primary Aluminum Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total production (short tons)	Shipments including interplant transfers ¹						Total shipments of products made from materials owned by others ² (short tons)	Produced and consumed in the same plant in the manufacture of other products (short tons)
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)		
			1958							
3334—	Refined aluminum, total.....	xxx	xxx	1,058,937	xxx	552,116	xxx	506,821	(NA)	xxx
3334011	Refined unalloyed aluminum:									xxx
	Made in primary aluminum industry (Industry 3334).....	1,078,361	1,105,716	539,444	545,954	263,273	559,762	276,171		xxx
	Made in secondary nonferrous metals industry (Industry 3341).....	24,221	24,046	10,662	24,046	10,662	...	...		xxx
	Total, all industries.....	1,102,582	1,129,762	550,106	570,000	273,935	559,762	276,171		
3341111	Aluminum-base alloys:									
	Made in primary aluminum industry (Industry 3334).....	481,424	508,189	260,838	156,525	82,463	351,664	178,375		(D)
	Made in aluminum rolling mills (Industry 3352) ³	171,345	172,215	94,220	87,039	46,824	85,176	47,396		
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....	319,083	340,648	153,773	331,082	148,894	9,566	4,879		975
	Total, all industries.....	971,852	1,021,052	508,831	574,646	278,181	446,406	230,650		(D)
			1954							
3334—	Refined aluminum, total.....	xxx	xxx	767,512	xxx	428,251	xxx	339,261	xxx	xxx
3334011	Refined unalloyed aluminum:									
	Made in primary aluminum industry (Industry 3334).....	1,143,846	1,140,676	461,311	646,681	261,275	493,995	200,036	...	xxx
	Made in secondary nonferrous metals industry (Industry 3341).....	8,086	8,086	3,443	8,086	3,443	...	...	...	xxx
	Total, all industries.....	1,151,932	1,148,762	464,754	654,767	264,718	493,995	200,036	...	xxx
334111	Aluminum-base alloys:									
	Made in primary aluminum industry (Industry 3334).....	741,069	336,845	141,037	76,178	32,602	260,667	108,435	...	...
	Made in aluminum rolling mills (Industry 3352) ³		371,509	61,007	306,829	130,931	64,680	30,790	32,204	13,893
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....		100,714	383,007						
	Total, all industries.....		741,069	708,354	302,758	163,533	325,347	139,225	32,204	13,893

xxx Not applicable

D Withheld to avoid disclosing figures for individual companies.

¹Excluding toll shipments.

²Data for toll shipments for 1958 are not available but will be included in the final report for this industry.

³Most of the aluminum-base alloys produced and shipped by aluminum rolling mills represents duplication of tonnages reported by the primary aluminum industry in that the ingot produced by the rolling mills is made from pig produced in primary aluminum plants.

USCOMM—DC

1958 CENSUS OF MANUFACTURES
PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

Final Industry Reports

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

Final Area Reports

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

Final Subject Reports

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I—SUMMARY STATISTICS

VOLUME II—INDUSTRY STATISTICS

VOLUME III—AREA STATISTICS

Bureau of the Census

WASHINGTON 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33B-4

PRIMARY ZINC INDUSTRY

(Industry Code 3333—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Primary Zinc Industry shipped products valued at \$209 million, a decrease of 10 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 8.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$72 million in 1958, a decrease of 5 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PRIMARY ZINC INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3333)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.9	10.5	-15
Payroll.....	Million dollars...	44.1	44.0	...
Production workers:				
Number.....	Thousands.....	7.0	8.6	-19
Man-hours.....	Millions.....	14.3	16.5	-13
Wages.....	Million dollars...	34.0	34.1	...
Value added by manufacture, unadjusted ²	do.....	66.5	87.5	-24
Value added by manufacture, adjusted ³	do.....	71.7	75.6	-5
Cost of materials, fuel, electricity, and contract work ⁴	do.....	140.8	143.8	-2
Value of shipments ⁵	do.....	209.0	231.3	-10
Capital expenditures, new.....	do.....	13.4	5.3	+153
Number of establishments ⁶	Number.....	20	21	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the preliminary reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Primary Zinc Industry includes establishments engaged primarily in smelting zinc from ore and in refining zinc by any process. Establishments primarily engaged in rolling, drawing or alloying primary zinc are classified in Industry 3359, Nonferrous Rolling and Drawing N.E.C. Establishments primarily engaged in producing zinc from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Nonferrous Metals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Primary Zinc Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Primary Zinc Industry amounted to \$209 million. Of this total, \$177 million were products primary to the industry, \$19 million were products primary to other industries, and \$13 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, totaling \$191 million of smelted and refined unalloyed zinc were shipped by all producers of these products. Of this total, \$168 million, or 88 percent, were shipped by plants classified in Industry 3333, Primary Zinc, while the remainder was shipped by plants classified in other industries. This percentage is based on shipments of zinc smelter products and refined unalloyed zinc only. The data on primary products of the industry in the preceding paragraph include zinc-base alloys as primary products for this industry. It is believed that this treatment provides the most meaningful measures of specialization and coverage for this industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE PRIMARY ZINC INDUSTRY (S. I. C. CODE 3333) BY REGIONS: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments, total ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	8,923	44,078	7,000	14,334	34,035	66,504	71,653	208,993	13,445	20	10,470	87,501
North Central.....	1,347	6,233	1,056	2,020	4,726	9,069	8,522	32,729	296	5	1,534	13,129
All other divisions.....	7,576	37,845	5,944	12,314	29,309	57,435	63,131	176,264	13,149	15	8,936	74,372

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Data for "Number of establishments" represents all establishments classified in the industry. The data for "Number of establishments" published in most of the advance reports in the 1958 Census of Manufactures are limited to those with 20 or more employees.

Table 3.—QUANTITY AND VALUE OF SMELTED AND REFINED ZINC SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Primary Zinc Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954					
		Total production	Total shipments including inter- plant transfers ¹		Total production	Total shipments including inter- plant transfers ²		Total shipments of products made from materials owned by others	Produced and consumed in the same plant in manufacture of other products	
			Quantity	Value		Quantity	Value			
		(short tons)	(short tons)	(\$1,000)	(short tons)	(short tons)	(\$1,000)	(short tons)	(short tons)	
3333---	Smelted and refined zinc, total.....	xxx	xxx	231,553	xxx	xxx	251,469	xxx	xxx	
3333111	Zinc residues and other zinc smelter products.....	438,014	³ 425,564	³ 25,742	318,162	⁴ 322,654	⁴ 20,481	(D)	(D)	
33332	Refined unalloyed zinc smelter products:									
	Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	8,598	xxx	xxx	12,654	xxx	xxx	
	Made by primary zinc refiners (Industry 3333) and other industries.....	xxx	xxx	157,105	xxx	xxx	171,904	xxx	xxx	
	Total, all industries.....	xxx	xxx	165,703	xxx	xxx	184,558	xxx	xxx	
3333213	Zinc slab, including remelt zinc.....	863,317	776,667	158,633	880,507	786,612	177,333	⁵ 163,767	(⁵)	
3333251	Zinc dust.....	25,792	25,518	7,070	38,671	26,644	7,225	(D)	10,637	
3341411	Zinc base alloys:									
	Made by primary zinc refiners (Industry 3333).....	}			}	xxx	xxx	(D)	xxx	
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....		142,121	125,882		40,108	xxx	xxx	(D)	xxx
	Total, all industries.....		142,121	125,882		40,108	154,672	⁶ 151,706	⁶ 46,430	⁵ 1,427

D Withheld to avoid disclosing figures for individual companies.

xxx Not applicable.

¹Data for toll shipments are excluded but will be included in the final report for this industry.

²Excluding toll shipments.

³Consists of 210,939 short tons valued at \$13,368 thousand shipped to other companies and 214,625 short tons valued at \$12,374 thousand shipped as transfers to other plants of the same company.

⁴Consists of 187,714 short tons valued at \$10,858 thousand shipped to other companies and 134,940 short tons valued at \$9,623 thousand shipped as transfers to other plants of the same company.

⁵Included with shipments of products made from materials owned by others.

⁶Consists of 148,521 short tons valued at \$45,470 thousand shipped to other companies and 3,185 short tons valued at \$960 thousand shipped as transfers to other plants of the same company.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33B-5

SECONDARY NONFERROUS METALS INDUSTRY

(Industry Code 3341--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Secondary Nonferrous Metals Industry shipped products valued at \$716 million, a decrease of 5 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 3 percent from 1954 to 1958 to a total of 14.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$149 million in 1958, an increase of 3 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SECONDARY NONFERROUS METALS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3341)

Item	Unit of measure	1958 ¹	1954* ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	14.7	15.1	-3
Payroll.....	Million dollars...	76.3	68.8	+11
Production workers:				
Number.....	Thousands.....	11.1	11.8	-6
Man-hours.....	Millions.....	21.9	24.1	-9
Wages.....	Million dollars...	47.7	44.9	+6
Value added by manufacture, unadjusted ².....	..do.....	130.1	135.2	-4
Value added by manufacture, adjusted ³.....	..do.....	149.1	144.8	+3
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	572.2	599.3	-6
Value of shipments ⁵.....	..do.....	716.2	742.2	-5
Capital expenditures, new.....	..do.....	5.4	9.3	-42
Number of establishments with 20 or more employees ⁶	Number.....	151	140	+8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

*Revised.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Secondary Nonferrous Metals Industry includes establishments engaged primarily in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Secondary Nonferrous Metals Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Secondary Nonferrous Metals Industry amounted to \$716 million. Of this total, \$567 million were products primary to the industry, \$62 million were products primary to other industries, and \$87 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers.

The latter figure, totaling \$895 million of alloyed nonferrous metals was shipped by all producers of these products. Of this total, \$443 million, or 49 percent, were shipped by plants classified in Industry 3341, Secondary Nonferrous Metals, while the remainder was shipped by plants classified in other industries, notably Industry 3334, Primary Aluminum. This percentage is based on shipments of alloyed nonferrous metals only. The data on primary products of the industry in the preceding paragraph include unalloyed nonferrous metals as primary products for this industry. It is believed that this treatment provides the most meaningful measures of specialization and coverage for this industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE SECONDARY NONFERROUS METALS INDUSTRY (S. I. C. 3341) BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958									1954 *		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em- ployees, number	Value added by manufac- ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unad-justed ² (\$1,000)	Ad-justed ³ (\$1,000)					
United States, total.....	14,702	76,324	11,057	21,926	47,738	130,088	149,138	716,213	5,408	151	15,155	135,230
New England.....	461	2,471	330	685	1,280	6,761	8,391	29,150	170	11	376	5,421
Massachusetts.....	273	1,456	199	419	773	5,030	6,273	19,841	93	8	222	3,038
Middle Atlantic.....	4,305	22,085	3,139	6,116	13,468	37,612	44,431	225,167	2,131	43	4,433	32,690
New York.....	1,454	6,665	1,140	2,053	4,502	11,474	11,751	64,091	395	12	1,376	8,936
New Jersey.....	1,278	7,024	868	1,821	4,120	9,983	10,988	88,677	546	14	1,625	10,376
Pennsylvania.....	1,573	8,396	1,131	2,242	4,846	16,155	21,692	72,399	1,190	17	1,432	13,377
East North Central....	6,356	35,241	4,869	9,948	22,410	54,409	64,403	315,602	1,785	52	7,035	67,042
Ohio.....	1,367	7,360	1,072	2,195	4,832	16,590	16,976	81,694	385	17	1,680	19,970
West North Central....	503	2,339	376	734	1,451	3,953	4,260	24,480	276	8	554	4,318
South Atlantic.....	568	2,747	459	954	1,940	6,886	6,527	24,285	148	6	582	4,962
West South Central....	589	2,440	462	932	1,681	3,279	3,092	24,593	283	9	508	4,357
West.....	1,730	8,227	1,275	2,249	5,053	15,682	16,291	66,737	472	19	1,447	14,919
California.....	1,504	7,190	1,102	1,913	4,314	13,389	13,990	58,544	348	16	1,292	13,716

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

*Revised.

Table 3.—QUANTITY AND VALUE OF REFINED NONFERROUS METALS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Secondary Nonferrous Metals Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958								Produced and consumed in the same plant in manufacture of other products
		Total production	Shipments including interplant transfers ¹							
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
				(\$1,000)		(\$1,000)		(\$1,000)		
3341---	Refined nonferrous metals, total ²	xxx	xxx	2,340,113	xxx	xxx	xxx	xxx	xxx	
3331211	Refined unalloyed copper:	(Short tons)	(Short tons)		(Short tons)		(Short tons)		(Short tons)	
	Made in secondary nonferrous metals industry (Industry 3341).....	30,241	51,522	26,247	}	(D)	(D)	(D)	(D)	
	Made in primary copper industry (Industry 3331) and other industries.....	1,560,311	589,936	310,245						
	Total, all industries.....	1,590,552	641,458	336,492						
3332211	Refined unalloyed lead:				}	(D)	(D)	(D)	(D)	
	Made in secondary nonferrous metals industry (Industry 3341).....	134,252	118,238	28,536						
	Made in primary lead (Industry 3332) and other industries.....	524,317	402,870	91,580						
	Total, all industries.....	658,569	521,108	120,116						
33332--	Refined unalloyed zinc smelter products:									
	Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	8,598	xxx	xxx	xxx	xxx	xxx	
	Made in primary zinc (Industry 3333) and other industries.....	xxx	xxx	157,105	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	xxx	xxx	165,703	xxx	xxx	xxx	xxx	xxx	
3333213	Zinc slab, including remelt zinc.....	863,317	776,667	158,633	(D)	(D)	(D)	(D)	(D)	
3333251	Zinc dust.....	25,792	25,518	7,070	(D)	(D)	(D)	(D)	(D)	
3334011	Refined unalloyed aluminum:									
	Made in secondary nonferrous metals industry (Industry 3341).....	24,221	24,046	10,662	24,046	10,662	...	...	xxx
	Made in primary aluminum industry (Industry 3334).....	1,078,361	1,105,716	539,444	545,954	263,273	559,762	276,171	xxx	
	Total, all industries.....	1,102,582	1,129,762	550,106	570,000	273,935	559,762	276,171	xxx	
33392--	Precious metals:	(Troy ounces)	(Troy ounces)		(Troy ounces)		(Troy ounces)		(Troy ounces)	
	Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	38,113	xxx	xxx	xxx	xxx	xxx	
	Made in primary nonferrous metals industry, n.e.c. (Industry 3339) and other industries.....	xxx	xxx	116,028	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	xxx	xxx	154,141	xxx	xxx	xxx	xxx	xxx	
3339211	Gold, refined, unalloyed.....	2,500,493	1,772,717	63,411	(NA)	(NA)	(NA)	(NA)	(NA)	
3339231	Platinum, refined, unalloyed.....	438,932	184,042	9,787	(NA)	(NA)	(NA)	(NA)	(NA)	
3339251	Silver, refined, unalloyed.....	94,821,478	90,082,065	80,943	(NA)	(NA)	(NA)	(NA)	(NA)	
33391--	Other unalloyed nonferrous metals, smelted or refined including magnesium:	(Short tons)	(Short tons)		(Short tons)		(Short tons)		(Short tons)	
33393--										
	Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	16,014	xxx	13,751	xxx	2,263	9,575	
	Made in primary nonferrous metals industry, n.e.c. (Industry 3339) and other industries.....	xxx	xxx	102,209	xxx	90,712	xxx	11,497	4,728	
	Total, all industries.....	xxx	xxx	118,223	xxx	104,463	xxx	13,760	14,303	
3341111	Aluminum base alloys (pig, ingot, shot, etc.):									
	Made in primary aluminum industry (Industry 3334).....	481,424	508,189	260,838	156,525	82,463	351,664	178,375	(D)	
	Made in aluminum rolling mills (Industry 3352) ³ ..	171,345	172,215	94,220	87,039	46,824	85,176	47,396	xxx	
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....	319,083	340,648	153,773	331,082	148,894	9,566	4,879	975	
	Total, all industries.....	971,852	1,021,052	508,831	574,646	278,181	446,406	230,650	(D)	
3341211	Copper alloys (pig, ingot, shot, etc.):									
	Made in primary copper industry (Industry 3331) and other industries, including secondary nonferrous metals industry (Industry 3341).....	319,247	256,274	136,501	(D)	(D)	(D)	(D)	(D)	
33413--	Lead alloys (pig, ingot, shot, etc.):									
	Made in primary lead industry (Industry 3332) and in nonferrous rolling mills other than aluminum and copper (Industry 3359).....	xxx	xxx	50,523	xxx	xxx	xxx	xxx	xxx	
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....	xxx	xxx	110,283	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	xxx	xxx	160,726	xxx	xxx	xxx	xxx	xxx	
3341311	Antimonial lead.....	245,487	242,603	61,491	(D)	(D)	(D)	(D)	(D)	
3341331	Babbitt metal, lead-base.....	23,991	22,144	9,837	(D)	(D)	(D)	(D)	(D)	
3341335	Babbitt metal, tin-base.....	2,957	2,364	3,959	(D)	(D)	(D)	(D)	(D)	
3341351	Solder.....	69,570	70,483	51,518	(D)	(D)	(D)	(D)	(D)	
3341371	Type metal.....	42,871	39,802	14,682	(D)	(D)	(D)	(D)	(D)	
3341398	Other lead and tin-base alloys.....	29,838	33,322	13,189	(D)	(D)	(D)	(D)	(D)	
3341300	Lead alloys, not specified by kind.....	xxx	xxx	6,050	xxx	6,050	...	...	...

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF REFINED NONFERROUS METALS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958								Produced and consumed in the same plant in manufacture of other products
		Total production	Shipments including interplant transfers ¹							
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
3341---	Refined nonferrous metals—Continued			(\$1,000)		(\$1,000)		(\$1,000)		
3341411	Zinc-base alloys (pig, ingot, shot, etc.): Made in primary zinc industry (Industry 3333) and other industries including secondary nonferrous metals industry (Industry 3341).....	(Short tons) 142,121	(Short tons) 125,882	40,108	xxx	xxx	xxx	xxx	(Short tons) xxx	
33415--	Other alloys (pig, ingot, shot, etc.): Made by primary nonferrous refiners except copper, lead, zinc and aluminum (Industry 3339) and in nonferrous rolling mills, except copper and aluminum (Industry 3359)..... Made in secondary nonferrous metals industry (Industry 3341) and other industries..... Total, all industries.....	xxx xxx xxx	xxx xxx xxx	14,403 34,763 49,166	xxx xxx xxx	xxx xxx xxx	xxx xxx xxx	xxx xxx xxx	xxx xxx xxx	
3341521	Silver and silver-base alloys.....	(Troy ounces) (NA)	(Troy ounces) (NA)	2,974	(D)	(D)	(D)	(D)	(Troy ounces) ...	
3341531	Gold and gold-base alloys.....	(NA)	(NA)	9,184	(D)	(D)	(D)	(D)	...	
3341541	Magnesium-base alloys.....	(Short tons) 10,794	(Short tons) 11,040	9,764	(D)	(D)	(D)	(D)	(Short tons) ...	
3341553	Other nonferrous metals alloys (including nickel).....	xxx	xxx	27,244	xxx	xxx	xxx	xxx	xxx	
3341598										
1954										
		Total production	Shipments including interplant transfers ¹						Total shipments of products made from materials owned by others	Produced and consumed in the same plant in manufacture of other products
			Total		Shipments to all other companies		Transfers to other plants of the same company			
			Quantity	Value	Quantity	Value	Quantity	Value		
3341---	Refined nonferrous metals, total ²	xxx	xxx	(\$1,000) 2,316,718	xxx	xxx	xxx	xxx	xxx	xxx
3331211	Refined unalloyed copper: Made in secondary nonferrous metals industry (Industry 3341)..... Made in primary copper industry (Industry 3331) and other industries..... Total, all industries.....	(Short tons) xxx xxx 1,458,359	(Short tons) xxx xxx 644,090	17,034 356,936 373,970	xxx xxx (D)	xxx xxx (D)	xxx xxx (D)	xxx xxx (D)	xxx xxx 886,952	(Short tons) xxx xxx 10,105
3332211	Refined unalloyed lead: Made in secondary nonferrous metals industry (Industry 3341)..... Made in primary lead (Industry 3332) and other industries..... Total, all industries.....	xxx xxx xxx 661,890	xxx xxx xxx 462,992	27,545 101,503 129,048	xxx xxx 447,289	xxx xxx 124,817	xxx xxx 15,703	xxx xxx 4,231	xxx xxx 134,848	xxx xxx 52,311
33332--	Refined unalloyed zinc smelter products: Made in secondary nonferrous metals industry (Industry 3341)..... Made in primary zinc (Industry 3333) and other industries..... Total, all industries.....	xxx xxx xxx 868,262	xxx xxx xxx 774,140	12,654 171,904 184,558	xxx xxx xxx (D)	xxx xxx xxx (D)	xxx xxx xxx (D)	xxx xxx xxx (D)	xxx xxx xxx 163,282	xxx xxx xxx (4)
3333211	Slab zinc, except remelt.....	12,245	12,472	2,821	(D)	(D)	(D)	(D)	...	485
3333231	Remelt zinc.....	38,671	26,644	7,225	(D)	(D)	(D)	(D)	(D)	10,637
3333251	Zinc dust.....									
3334011	Refined unalloyed aluminum: Made in secondary nonferrous metals industry (Industry 3341)..... Made in primary aluminum industry (Industry 3334)..... Total, all industries.....	xxx xxx xxx 1,151,932	xxx xxx xxx 1,148,762	3,448 461,306 464,754	xxx xxx 654,767	xxx xxx 264,718	xxx xxx 493,995	xxx xxx 200,036	xxx xxx ...	xxx xxx xxx

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF REFINED NONFERROUS METALS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	1954										Total shipments of products made from materials owned by others	Produced and consumed in the same plant in manufacture of other products	
		Total production	Shipments including interplant transfers ¹											
			Total		Shipments to all other companies		Transfers to other plants of the same company							
			Quantity	Value	Quantity	Value	Quantity	Value						
				(\$1,000)		(\$1,000)		(\$1,000)						
3341----	Refined nonferrous metals—Continued													
33392--	Precious metals:	(Troy ounces)	(Troy ounces)			(Troy ounces)		(Troy ounces)		(Troy ounces)	(Troy ounces)	(Troy ounces)		
	Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	40,284	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Made in primary nonferrous metals industry, n.e.c. (Industry 3339) and other industries.....	xxx	xxx	139,143	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
3339211	Total, all industries.....	xxx	xxx	179,427	xxx	(NA)	xxx	(NA)	xxx	(NA)	xxx	(NA)	(NA)	
3339231	Gold, refined, unalloyed.....	}	(NA)	(NA)	179,427	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
3339251	Platinum, refined, unalloyed.....													
	Silver, refined, unalloyed.....													
33391--	Other unalloyed, nonferrous metals, smelted or refined, including magnesium:	(Short tons)	(Short tons)			(Short tons)		(Short tons)		(Short tons)	(Short tons)	(Short tons)		
33393--														
		Made in secondary nonferrous metals industry (Industry 3341).....	xxx	xxx	9,355	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
		Made in primary nonferrous metals industry, n.e.c. (Industry 3339) and other industries.....	xxx	xxx	207,222	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Total, all industries.....	xxx	xxx	216,577	xxx	205,544	xxx	11,033	xxx	xxx	xxx	xxx	xxx	
3341111	Aluminum-base alloys (pig, ingot, shot, etc.):													
	Made in primary aluminum industry (Industry 3334).....	xxx	xxx	140,976	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Made by aluminum rolling mills (Industry 3352) ² ..	xxx	xxx	61,007	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....	xxx	xxx	100,775	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	741,069	708,354	302,758	383,007	163,533	325,347	139,225	32,204	13,893				
3341211	Copper-base alloys (pig, ingot, shot, etc.):													
	Made in primary copper industry (Industry 3331) and other industries including secondary nonferrous metals industry (Industry 3341).....	273,311	271,269	148,884	(D)	(D)	(D)	(D)	1,863	1,015				
33413--	Lead alloys (pig, ingot, shot, etc.):													
	Made in primary lead industry (Industry 3332) and in nonferrous rolling mills other than aluminum and copper (Industry 3359).....	xxx	xxx	54,542	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Made in secondary nonferrous metals industry (Industry 3341) and other industries.....	xxx	xxx	131,170	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	xxx	xxx	185,712	xxx	162,102	xxx	23,610	xxx	xxx	xxx	xxx	xxx	
3341311	Antimonial lead.....	257,258	257,921	80,154	}	(D)	(D)	(D)	(D)	5,476	(D)	(D)	(D)	
3341331	Babbitt metal, lead-base.....	(NA)	21,588	10,397										
3341335	Babbitt metal, tin-base.....	(NA)	2,835	4,643										
3341351	Solder.....	(NA)	76,801	55,780										
3341371	Type metal.....	}	(NA)	94,079	34,738	(D)	(D)	(D)	(D)	642	(D)	(D)	(D)	
3341398	Other lead and tin-base alloys.....													
3341411	Zinc-base alloys (pig, ingot, shot, etc.):													
	Made in primary zinc industry (Industry 3333) and other industries, including secondary nonferrous metals industry (Industry 3341).....	154,672	151,706	46,430	148,521	45,470	3,185	960	41,427	(4)				
33415--	Other alloys (pig, ingot, shot, etc.):													
	Made by primary nonferrous refiners, except copper, lead, zinc and aluminum (Industry 3339).....	xxx	xxx	2,932	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Made in nonferrous rolling mills other than copper and aluminum (Industry 3359), secondary nonferrous metals industry (Industry 3341) and other industries.....	xxx	xxx	*81,668	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	xxx	xxx	*84,600	xxx	*77,196	xxx	7,404	xxx	xxx	xxx	xxx	xxx	
3341521	Silver and silver-base alloys.....	(Troy ounces)	(Troy ounces)		(Troy ounces)		(Troy ounces)		(Troy ounces)	(Troy ounces)	(Troy ounces)	(Troy ounces)		
3341531	Gold and gold-base alloys.....	*8,236,968	*8,530,754	*5,447	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	
		*4,936,966	*306,084	*7,886	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	
		(Short tons)	(Short tons)		(Short tons)		(Short tons)		(Short tons)	(Short tons)	(Short tons)	(Short tons)		
3341541	Magnesium-base alloys.....	(NA)	12,683	8,030	(D)	(D)	(D)	(D)	...	(D)	(D)	(D)		
3341511	Other nonferrous metal alloys (including nickel).....	(NA)	(NA)	*63,237	(NA)	*57,283	(NA)	5,954	(NA)	(NA)	(NA)	(NA)	(NA)	
3341551														
3341598														

*Revised. xxx Not applicable. D Withheld to avoid disclosing figures for individual companies. NA Not available. ¹Excluding toll shipments. Data for toll shipments for 1958 are not available but will be published in the final report for this industry. ²This total includes product classes 33312, 33322, 33332, 33340, 33391, 33392, and 33393. Each of the preceding product classes is considered as a "primary product" to both Industry 3341, Secondary Nonferrous Metals and to the applicable industry in Industry Group 333—Primary Nonferrous Metals. ³Most of the aluminum-base alloys produced and shipped by aluminum rolling mills represents duplication of tonnages reported by the primary aluminum industry in that the ingot produced by the rolling mills is made from pig produced in primary aluminum plants. ⁴Included with shipments of products made from materials owned by others.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P)-33C-1

NONFERROUS FOUNDRIES

(Industry Code 3361--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in Nonferrous Foundries shipped products valued at \$888 million, practically equal to shipments in 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 62.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$473 million in 1958, practically equal to the 1954 total when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR NONFERROUS FOUNDRIES: 1958 AND 1954
(Standard Industrial Classification Code 3361)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	62.6	73.5	-15
Payroll.....	Million dollars...	321.7	327.9	-2
Production workers:				
Number.....	Thousands.....	51.6	61.6	-16
Man-hours.....	Millions.....	101.6	124.0	-18
Wages.....	Million dollars...	240.3	251.4	-4
Value added by manufacture, unadjusted ².....	..do.....	470.8	477.0	+1
Value added by manufacture, adjusted ³.....	..do.....	473.3	472.4	...
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	415.3	405.6	+2
Value of shipments ⁵.....	..do.....	887.6	884.6	...
Capital expenditures, new.....	..do.....	22.5	24.8	-9
Number of establishments with 20 or more employees ⁶	Number.....	639	611	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

Nonferrous Foundries include establishments engaged primarily in the manufacture of castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Nonferrous Foundries consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in Nonferrous Foundries amounted to \$888 million. Of this total, \$792 million were products primary to the industry, \$72 million were products primary to other industries, and \$24 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary.) The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$866 million of nonferrous castings were shipped by all producers of these products. Of this total, \$792 million, or 91 percent, were shipped by plants classified in Industry 3361, Nonferrous Foundries while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR NONFERROUS FOUNDRIES (S.I. C. CODE 3361) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	62,620	321,683	51,586	101,579	240,343	470,777	473,287	887,556	22,456	639	73,487	476,969
New England.....	3,894	18,026	3,289	6,643	13,792	26,054	26,361	46,173	1,078	46	4,206	25,561
Massachusetts.....	1,673	7,133	1,455	2,939	5,704	10,391	10,676	18,127	410	22	1,681	9,477
Connecticut.....	1,799	9,301	1,464	3,006	6,748	12,574	12,588	23,556	541	19	2,087	13,263
Middle Atlantic.....	14,718	74,059	12,181	23,888	55,853	107,382	107,187	189,007	4,621	138	17,205	106,472
New York.....	5,407	26,387	4,433	8,478	19,105	39,094	38,689	70,865	2,137	63	6,759	40,285
New Jersey.....	3,219	17,018	2,655	5,381	13,069	22,984	23,139	40,891	578	32	3,361	21,793
Pennsylvania.....	6,092	30,654	5,093	10,029	23,679	45,304	45,359	77,251	1,906	43	7,084	44,393
East North Central.....	29,893	160,968	24,498	48,333	118,616	230,747	232,285	442,190	8,493	272	39,137	262,723
Ohio.....	10,013	54,373	8,118	15,836	39,638	75,181	75,132	140,968	2,121	82	14,006	96,687
Indiana.....	2,334	12,597	1,832	3,489	8,757	15,327	15,377	31,215	1,589	23	5,791	32,711
Illinois.....	7,160	37,279	6,085	11,839	28,533	52,694	52,740	98,124	1,479	71	8,671	56,354
Michigan.....	7,494	42,437	5,964	12,149	30,512	67,413	68,851	132,102	2,411	66	6,808	54,368
Wisconsin.....	2,892	14,282	2,499	5,020	11,176	20,132	20,185	39,781	893	30	3,858	22,600
West North Central.....	4,185	20,281	3,524	6,497	15,936	31,365	31,590	61,999	1,363	48	3,655	21,097
Minnesota.....	973	4,802	824	1,642	3,740	6,470	6,479	13,015	408	15	909	6,642
Iowa.....	409	1,675	346	640	1,297	2,503	2,505	4,959	96	6	413	2,207
Missouri.....	2,546	12,723	2,137	3,811	10,101	20,704	20,824	39,629	804	22	2,068	11,034
South Atlantic.....	971	3,581	810	1,483	2,693	5,435	5,483	17,334	609	14	723	4,280
Georgia.....	258	878	204	377	646	1,077	1,103	2,538	96	3	129	744
East South Central.....	833	4,390	643	1,320	3,036	4,298	4,523	12,705	(D)	7	363	1,426
Alabama.....	556	3,431	417	892	2,302	2,162	2,414	8,442	(D)	4	100	559
West South Central.....	1,135	4,860	934	1,735	3,615	8,627	8,737	18,229	749	17	1,367	7,878
Arkansas.....	287	1,434	212	397	867	2,984	3,036	7,177	55	3	444	3,022
Texas.....	652	2,545	554	1,016	2,000	4,404	4,433	8,833	586	9	658	3,313
Mountain.....	409	1,681	333	651	1,299	2,560	2,476	5,012	380	8	241	1,363
Pacific.....	6,582	33,837	5,374	11,029	25,503	54,309	54,645	94,907	2,237	89	6,587	46,165
Oregon.....	319	1,672	265	540	1,294	2,763	2,155	5,185	85	4	300	1,823
California.....	6,098	31,423	4,969	10,222	23,619	50,285	51,237	87,416	2,119	82	6,085	43,093

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

USCOMM--DC

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF NONFERROUS CASTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in Nonferrous Foundries but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments and interplant transfers			
		1958		1954	
		Quantity (1,000 lbs.)	Value (\$1,000)	Quantity (1,000 lbs.)	Value (\$1,000)
3361----	Nonferrous castings, total ¹	xxx	866,166	xxx	843,090
	Aluminum and aluminum-base alloy castings:				
3361011	Sand.....	98,863	99,568	128,612	117,796
3361013	Permanent and semi-permanent mold.....	144,258	82,020	159,418	95,526
3361015	Die.....	217,374	142,597	172,834	116,532
3361017	Investment.....	394	2,698		
3361018	Other.....	(NA)	15,069	5,194	14,841
3361010	Not specified by kind.....	(NA)	21,531	...	(²)
	Copper and copper-base alloy castings:				
3361021	Sand.....	232,033	147,765	328,512	173,387
3361023	Permanent and semi-permanent mold.....	7,167	8,201	13,838	8,262
3361025	Die.....	2,227	2,533	4,848	4,443
3361027	Investment.....	467	3,754		
3361028	Other.....	9,899	10,910	13,776	15,478
3361020	Not specified by kind.....	(NA)	11,764	...	(²)
	Magnesium and magnesium-base alloy castings:				
3361031	Sand.....	12,555	44,315	16,632	45,153
3361035	Die.....	(NA)	4,862	(NA)	4,520
3361038	Other including permanent and semi-permanent mold (except cast anodes).....	2,752	5,177	(NA)	4,300
3361030	Not specified by kind.....	(NA)	584	...	(²)
	Zinc and zinc-base alloy castings:				
3361041	Die.....	238,570	132,692	228,834	112,125
3361049	Other.....	1,150	694	(NA)	2,817
3361040	Not specified by kind.....	(NA)	3,095	...	(²)
3361051	Lead and lead-base alloy die castings.....	(NA)	3,592	(NA)	4,925
3361068	} Other nonferrous metal castings (including die castings).....	(NA)	3,592	(NA)	4,925
3361097		xxx	31,185	(NA)	42,088
	Other nonferrous foundry products:				
3361071	Pressure cookers, except steam commercial.....	xxx	7,633	xxx	} 327,203
3361075	Cast aluminum cooking utensils, except pressure cookers (household, commercial, and institutional).....	xxx		xxx	
3361085	Bearings and bushings, nonferrous, nonmachined.....	xxx		xxx	
3361087	Railroad car journal bearings.....	xxx	31,896	xxx	
3361000	Nonferrous castings, not specified by type.....	xxx	51,931	xxx	253,693

NA Not available.

xxx Not applicable.

¹These data differ from the tonnage data published in Facts for Industry Series M33E, Nonferrous Castings, in that no data are included above for castings produced by captive foundry departments of plants classified in other industries. In addition, certain products are reported as castings in the monthly survey which in the Census of Manufactures are classified as finished products (see product codes 33610 71 to 33610 87).²Data for 1954 for product code 33610 10, 33610 20, 33610 30 and 33610 40 are included in nonferrous castings not specified by type, code 33610 00.³Represents pressure cookers, except steam commercial; other cast aluminum cooking utensils; and bushings, automotive and non-automotive types.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-33C-2

COPPER ROLLING AND DRAWING INDUSTRY

(Industry Code 3351—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Copper Rolling and Drawing Industry shipped products valued at \$1,267 million, a decrease of 5 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 41.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$458 million in 1958, an increase of 8 percent from 1954 when the pre-

vious census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE COPPER ROLLING AND DRAWING INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3351)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	41.3	41.9	-1
Payroll.....	Million dollars...	227.7	195.2	+17
Production workers:				
Number.....	Thousands.....	32.6	34.1	-4
Man-hours.....	Millions.....	65.1	68.0	-4
Wages.....	Million dollars...	170.2	147.9	+15
Value added by manufacture, unadjusted ².....	..do.....	446.7	420.6	+6
Value added by manufacture, adjusted ³.....	..do.....	457.8	422.9	+8
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	818.9	912.3	-10
Value of shipments ⁵.....	..do.....	1,267.0	1,334.4	-5
Capital expenditures, new.....	..do.....	30.8	30.5	+1
Number of establishments with 20 or more employees ⁶	Number.....	90	77	+17

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Copper Rolling and Drawing Industry includes establishments engaged primarily in rolling, drawing, and extruding copper, brass, bronze, and other copper-base alloy basic shapes such as plates, sheets, strips, rods, wire and tubing. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Copper Rolling and Drawing Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Copper Rolling and Drawing Industry amounted to \$1,267 million. Of this total, \$1,058 million were products primary to the industry, \$125 million were products primary to other industries, and \$84 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,191 million of rolled, drawn and extruded copper and copper-base alloy mill products, including wire were shipped by all producers of these products. Of this total, \$1,058 million, or 89 percent, were shipped by plants classified in Industry 3351, Copper Rolling and Drawing, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE COPPER ROLLING AND DRAWING INDUSTRY (SIC CODE 3351), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	41,282	227,697	32,641	65,114	170,205	446,715	457,820	1,266,983	30,757	90	41,906	420,604
New England.....	13,487	75,231	10,949	21,326	57,672	134,416	141,098	348,417	11,516	26	16,645	138,525
Connecticut.....	11,736	66,118	9,576	18,650	50,985	116,615	123,870	304,148	11,341	21	14,758	120,661
Middle Atlantic.....	11,767	61,930	9,076	18,263	45,479	128,265	127,020	374,469	6,074	27	9,326	107,512
New York.....	3,837	20,997	3,079	6,090	15,925	44,203	43,571	133,113	3,690	7	4,014	43,593
New Jersey.....	2,813	15,630	2,365	4,921	12,846	37,155	37,083	142,171	841	8	2,674	25,752
Pennsylvania.....	5,117	25,303	3,632	7,252	16,708	46,907	46,366	99,185	1,543	12	2,638	38,167
North Central.....	12,613	71,150	10,009	20,056	52,929	146,231	151,090	425,249	10,647	28	13,037	140,849
Ohio.....	2,731	15,742	2,254	4,428	12,501	29,051	30,246	73,570	782	6	2,742	23,618
Illinois.....	2,797	15,987	2,122	4,481	11,210	27,247	28,317	69,152	3,645	5	2,894	28,901
Michigan.....	4,042	22,205	3,136	6,232	16,183	45,531	45,911	106,538	4,354	12	4,445	47,278
South and West.....	3,415	19,386	2,607	5,469	14,125	37,803	38,612	118,848	2,520	9	2,896	33,717

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF ROLLED, DRAWN, AND EXTRUDED COPPER AND COPPER-BASE ALLOY MILL PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Copper Rolling and Drawing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958 ¹						1954					
		Total shipments including interplant transfers		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in the manufacture of insulated wire and cable and other fabricated products (short tons)	Receipts ²	Total shipments including interplant transfers ³		Produced and consumed in the same plant in the manufacture of insulated wire and cable and other fabricated products (short tons)	Shipments of products manufactured from materials owned by others (short tons)
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)			Quantity (short tons)	Value (\$1,000)		
3351---	Copper rolling and drawing ⁴	1,350,731	1,190,737	1,047,496	990,883	303,235	199,914	504,623	555,522	1,546,150	1,353,660	432,721	218,343
33510--	Rolled, drawn, and extruded copper and copper-base products.....	1,103,329	986,791	904,206	860,076	199,123	126,715	31,131	536,262	1,268,773	1,123,540	15,897	210,832
3351011	Copper, unalloyed:												
3351013	Rod and bar.....	272,562	170,294	164,498	109,625	108,064	60,669		469,866	315,326	215,357		182,809
3351015	Plate, sheet and strip.....	64,911	64,421	60,783	62,106	4,128	2,315		550	112,378	105,143		9,755
	Pipe and tube.....	221,503	260,807	210,694	251,952	10,809	8,855		20,397	211,879	248,573		4,149
3351031	Copper-base alloys:												
3351033	Rod and bar.....	206,200	138,932	168,556	119,125	37,644	19,807		30,340	225,073	160,160		1,350
3351035	Shapes, drawn and extruded.....	32,146	31,098	24,979	22,876	7,167	8,222	31,131	...	22,150	19,860		549
3351037	Plate, sheet and strip (including military cups and discs-net weight)....	223,408	213,310	194,788	189,730	28,620	23,580		1,474	300,729	279,264		11,540
	Pipe and tube.....	82,599	104,979	79,908	102,378	2,691	2,601		13,635	81,238	95,183		680
3351000	Rolled, drawn, and extruded copper, and copper-base products, not specified by kind.....	xxx	2,950	xxx	2,284	xxx	666		xxx	xxx	xxx	xxx	xxx
33923--	Copper wire and cable:												
	Made in copper rolling mills (Industry 3351).....	143,628	118,289	79,097	70,000	64,531	48,289		xxx	xxx	145,648	xxx	xxx
	Made in wire drawing (Industry 3392) and other industries.....	103,774	85,657	64,193	60,747	39,581	24,910		xxx	xxx	84,472	xxx	xxx
	Total, all industries.....	247,402	203,946	143,290	130,747	104,112	73,199		19,260	277,377	230,120	416,824	7,511
3392311	Copper wire, bare and tinned:												
3392315	For electrical transmission.....	172,920	131,117	89,477	74,243	83,443	56,874	455,007		163,925	126,711	382,337	0,356
	Other unalloyed copper wire.....	8,836	7,368	6,697	5,673	2,139	1,695	2,565		19,577	15,747	858	...
3392351	Copper-base alloy wire:												
3392359	For electrical transmission.....	5,185	4,575	4,376	3,818	809	757	42,950		6,325	5,833	15,786	286
	Other copper-base alloy wire.....	36,587	40,511	33,076	37,348	3,511	3,163	970		46,518	47,205	1,130	434
3392371	Copper strand and cable, except insulated.	23,874	20,375	9,664	9,665	14,210	10,710	...		41,032	34,624	16,713	435

NA Not available.

xxx Not applicable.

¹Data for receipts and toll shipments are excluded but will be included in the final report for the industry.

²Represents receipts by nonferrous metal mills and wire drawing establishments.

³Separate data for "Commercial shipments" and "Interplant transfers" are available in Part 2, Volume II of the 1954 Census of Manufactures.

⁴Data on net shipments are shown for 1958 in Facts for Industry Series HUSAF-84, "Shipments of Copper-Base Mill and Foundry Products." Net shipments data for the 1958 Census of Manufactures will be available in the final report for this industry.

USCOMM-DC

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-33C-3

ALUMINUM ROLLING AND DRAWING INDUSTRY

(Industry Code 3352--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Aluminum Rolling and Drawing Industry shipped products valued at \$1,375 million, an increase of 57 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 15 percent from 1954 to 1958 to a total of 42.4 thousand employees, in 1958. Value added by manufacture in the industry amounted to \$474 million in 1958, an increase of 34 percent from 1954 when the

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ALUMINUM ROLLING AND DRAWING INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3352)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	42.4	36.8	+15
Payroll.....	Million dollars...	246.0	164.9	+49
Production workers:				
Number.....	Thousands.....	33.0	29.8	+11
Man-hours.....	Millions.....	68.2	60.7	+12
Wages.....	Million dollars...	180.5	125.6	+44
Value added by manufacture, unadjusted ².....	..do.....	442.4	339.7	+30
Value added by manufacture, adjusted ³.....	..do.....	473.9	352.3	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	932.0	537.2	+74
Value of shipments ⁵.....	..do.....	1,375.4	877.0	+57
Capital expenditures, new.....	..do.....	78.7	21.4	+268
Number of establishments with 20 or more employees ⁶	Number.....	112	70	+60

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resale for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 34

GROUP 35

The Aluminum Rolling and Drawing Industry includes establishments engaged primarily in the manufacture of rolled, drawn, and extruded aluminum and aluminum-base alloy basic shapes such as plates, sheets, rods, wire and tubing. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Aluminum Rolling and Drawing Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Aluminum Rolling and Drawing Industry amounted to \$1,375 million. Of this total, \$1,155 million were products primary to the industry, \$166 million were products primary to other industries, and \$54 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, totaling \$1,163 million of rolled drawn and extruded aluminum were shipped by all producers of these products. Of this total, \$1,061 million, or 91 percent, were shipped by plants classified in Industry 3352, aluminum rolling and drawing, while the remainder was shipped by plants classified in other industries. This percentage is based on shipments of rolled and drawn aluminum mill shapes and wire only. The data on primary products of the industry in the preceeding paragraph include aluminum ingot as primary products for this industry. It is believed that this method of calculating these ratios provides the most meaningful measure of specialization and coverage in the light of the production facilities and distribution procedures typically maintained by this industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE ALUMINUM ROLLING AND DRAWING INDUSTRY (S.I.C. CODE 3352) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	42,368	246,045	32,970	68,164	180,480	442,378	473,906	1,375,440	78,677	112	36,803	339,717
North East and North Central.....	21,192	123,000	15,688	32,129	84,930	236,847	259,281	712,582	37,793	73	19,662	173,345
Ohio.....	3,138	17,204	2,344	4,723	11,978	43,115	56,854	143,570	(D)	14	2,709	21,236
Michigan.....	2,319	12,495	1,690	3,458	8,129	19,677	20,945	52,856	840	12	1,771	11,228
South.....	10,882	60,943	8,974	18,257	47,715	88,822	101,973	365,232	36,601	25	7,596	63,742
West.....	10,294	62,102	8,308	17,778	47,835	116,709	112,652	297,626	4,283	14	9,544	102,628
California.....	4,756	27,462	3,754	8,392	20,250	43,273	42,164	95,804	2,516	9	4,422	42,413

¹ D Withheld to avoid disclosing figures for individual companies.

² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

³ Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁵ For explanation see text under "Value of shipments."

Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 34

GROUP 35

Table 3.—QUANTITY AND VALUE OF ROLLED, DRAWN, AND EXTRUDED ALUMINUM SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Aluminum Rolling and Drawing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments".)

Product Code	Product	1954									
		Total shipments including interplant transfers		Commercial shipments		Interplant transfers		Produced and consumed in the same plant in the manufacture of insulated wire and cable and other fabricated products		Receipts	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3352--	Aluminum rolling and drawing ⁵ ,	xxx	1,672,232	xxx	xxx	xxx	xxx	...	...	(NA)	1,091,128
3341111	Aluminum alloys (pig, ingot, shot, etc.):										
	Made by primary aluminum industry	508,189	260,838	156,525	82,463	351,664	178,375	(D)	xxx	xxx	140,976
	(Industry 3352)										
	Made in aluminum rolling mills (Industry 3352)	172,215	94,220	87,039	46,824	85,176	47,396	...	xxx	xxx	61,007
	Made in secondary nonferrous metals industry (Industry 3341) and other industries	340,648	153,773	331,082	148,894	9,566	4,879	975	xxx	xxx	100,775
	Total, all industries	1,021,052	508,831	574,646	278,181	446,406	230,650	(D)	7708,354	7302,758	32,204
33521--	Aluminum plate and sheet	xxx	xxx	xxx	519,277	xxx	123,980	15,226	3,540	(NA)	420,266
	Plate (.250" and over):										
	Heat-treatable	32,641	36,227	27,513	31,604	5,128	4,623	2,425	940	xxx	36,004
	Nonheat-treatable	20,378	19,353	15,747	15,687	4,631	3,666	...	...	xxx	...
335213	Sheet:										
	Flat, heat-treatable	59,217	67,004	55,487	63,597	3,730	3,407	9,645	2,600	(NA)	357,667
	Flat, nonheat-treatable	179,290	163,938	160,290	147,792	19,000	16,146	3,156	...	xxx	...
	Coiled, heat-treatable	5,917	5,893	5,917	5,893	...	37,770	...	...	xxx	26,595
	Coiled, nonheat-treatable	333,983	275,197	285,732	237,387	48,251	58,368	...	xxx	xxx	...
	Foil stock	105,696	74,545	22,404	16,177	83,292	...	...	xxx	xxx	...
335215	Aluminum plate and sheet, not specified by kind	xxx	1,140	xxx	1,140	...	...	...	xxx	xxx	...
33522--	All other rolled, drawn, and extruded aluminum mill products	xxx	480,351	(D)	(D)	(D)	(D)	7,685	76,254	364,127	340,150
3352211	Aluminum rod and bar, rolled and continuous cast	130,210	104,286	72,377	63,521	57,833	40,765	2,314	70,919	133,513	89,653
3352231	Aluminum rolled structural shapes	5,400	6,237	(D)	(D)	(D)	(D)	...	...	...	...
3352251	Extruded	38,035	43,669	35,604	41,218	2,431	2,451	890	3,697	33,603	35,491
3352253	Drawn	26,982	39,440	24,953	36,940	2,029	2,500	...	(D)	19,508	19,666
3352255	Welded	7,096	6,446	(D)	(D)	(D)	(D)	...	...	12,725	11,966
3352271	Extruded aluminum rod and bar, and other extruded aluminum shapes (except tube)	268,954	272,107	245,086	251,180	23,868	20,927	4,481	(D)	164,778	173,374
3352296	All other rolled, drawn and extruded aluminum mill products, not specified by kind	xxx	8,166	...	...	...	...	...	xxx	xxx	xxx
3352200	Aluminum rolling and drawing, not specified by kind	xxx	6,605	...	...	...	...	...	xxx	xxx	xxx
3352200	Aluminum and aluminum-base alloy wire:										
	Made in aluminum rolling mills (Industry 3352)	15,077	18,250	13,065	15,948	2,012	2,302	45,447	xxx	xxx	16,854
33922--	Made in wire drawing (Industry 3392) and other industries	23,341	21,543	14,762	14,375	8,579	7,168	54,097	xxx	xxx	11,100
	Total, all industries	38,418	37,793	27,827	30,323	10,591	9,470	99,544	1,497	727,509	727,954
3392211	Bare wire, conductor	17,600	14,817	9,116	7,768	8,484	7,049	894,229	1,497	17,111	82,843
3392251	Bare wire, other than conductor	20,818	24,976	18,711	22,555	2,107	2,421	5,315	...	719,012	879,437

D Withheld to avoid disclosing figures for individual companies. NA Not available. xxx Not applicable. Data for receipts and toll shipments are excluded but will be included in the final report for this industry. Excludes toll shipments. Represents receipts by nonferrous metal mills and wire drawing establishments. Data on net shipments are shown for 1958 in figures for Industry Series M3-2 "Aluminum Ingot and Mill Products." Net shipments data for the 1958 Census of Manufactures will be available in the final report for this industry. Includes aluminum alloys and aluminum-base alloy wire, product class codes 3341 and 3392 which are primary to Industry 3352. Product class 3341 is also shipped by Industries 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000.

Data for Commercial shipments and interplant transfers for 1954 are as follows:

Industry	Commercial shipments		Interplant transfers	
	Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)
Aluminum alloys (pig, ingot, shot, etc.)	383,007	163,533	325,347	139,225
Aluminum and aluminum-base alloy wire	24,271	23,157	3,258	2,797
Bare wire conductor	7,118	6,319	1,859	2,005
Bare wire, other than conductor	17,153	18,838	1,859	2,005

⁵Primarily represents consumption of bare aluminum wire (conductor) in the production of aluminum cable-steel reinforced (ACSR).

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

December 1959

MC(P)-33D-1

WELDED AND HEAVY-RIVETED PIPE INDUSTRY

(Industry Code 3393--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Welded and Heavy-Riveted Pipe Industry shipped products valued at \$691 million, an increase of 29 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 2 percent from 1954 to 1958 to a total of 22.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$255 million in 1958, an increase of 25 percent from 1954. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids, therefore, the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this release for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE WELDED AND HEAVY-RIVETED PIPE INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3393)

Item	Unit of Quantity	1958	1954	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	22.6	22.1	+2
Payroll.....	Million dollars...	129.9	108.4	+20
Production workers:				
Number.....	Thousands.....	18.4	18.4	-
Man-hours.....	Millions.....	35.9	37.5	-4
Wages.....	Million dollars...	98.1	83.5	+18
Value added by manufacture, unadjusted ¹.....	.....do.....	254.7	204.3	+25
Value added by manufacture, adjusted ².....	.....do.....	253.5	207.6	+22
Cost of materials, fuel, electricity, and contract work ³.....	.....do.....	435.0	321.5	+35
Value of shipments ⁴.....	.....do.....	690.5	535.8	+29
Capital expenditures, new.....	.....do.....	14.3	9.1	+56
Establishments with 20 or more employees ⁵	Number.....	98	69	+42

¹Value of shipments less cost of materials, supplies, fuel, electric energy, and contract work.

²Represents unadjusted value added plus the value added in the purchase and resale of products sold without further manufacture and the net change in finished goods and work-in-process inventories.

³Includes cost of products bought and resold in the same condition.

⁴Includes for all establishments classified in this industry, not only (a) their value of products "primary" to the industry, but also (b) their value of "secondary" products which are primary to other industries, (c) their "miscellaneous" receipts for contract work, repair work, sales of scrap, etc., and (d) sales of products bought and resold in the same condition.

⁵Except for "Establishments with 20 or more employees", the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the particular industry or industry group.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 460 preliminary Census of Manufactures reports, \$40.00

The Welded and Heavy-Riveted Pipe Industry includes establishments engaged primarily in the manufacture of welded pipe and tubes and lock-joint and heavy-riveted pipe from purchased skelp. Rolling mills engaged in manufacturing welded and heavy riveted pipe are classified in Industry 3312, Steel Works and Rolling Mills; establishments primarily engaged in manufacturing seamless pipe are also classified in Industry 3312 regardless of whether they melt the steel or produce the pipe from tube rounds received at the establishment. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments. Figures for such offices and auxiliary units operated by manufacturing companies will be shown at the 2-digit industry group level in reports to be issued later.

This report is based upon the 1945 Standard Industrial Classification Manual definitions of industries. The final industry reports will include industry statistics classified according to the new, 1957 edition of the Standard Industrial Classification Manual (SIC). In the manufacturing sector, the 1957 SIC includes extensive revisions of industry definitions including a redefinition of the Welded and Heavy-Riveted Pipe Industry.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submit separate reports if the company records permit such a separation, and if the separate activities are substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

For the most part, the definitions and methods used in conducting the 1958 Census of Manufactures are comparable with those in earlier Censuses. A difference of some consequence, however, exists in connection with the definition of value of shipments shown in tables 1 and 2. In the 1954 and earlier Censuses, the

total value of shipments for all establishments in an industry or area excluded the receipts for the sale of products bought and resold without further manufacturing, fabrication, or assembly. That is, the receipts for merchandising activities were excluded from the value of shipments published in the 1954 and earlier Censuses. In the 1958 Census, such receipts are included in the total value of shipments. The 1954 value of shipments figure shown in table 1 has been revised so that it is comparable.

The value of shipments reported by establishments classified in the Welded and Heavy-Riveted Pipe Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary to other industries), and miscellaneous receipts for contract work, repair work, sale of scrap, resale of products not manufactured at the establishment, etc. The total value of shipments and other receipts of establishments classified in the Welded and Heavy-Riveted Pipe Industry amounted to \$691 million. Of this total, \$611 million were products primary to the industry.

The total value of shipments for the industry which is the total value of receipts of establishments classified in the industry should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure appearing in table 3 indicates that \$1,727 million of welded and heavy-riveted steel pipe were shipped by all producers of such products. Of this total, \$650 million or 38 percent were shipped by plants classified in Industry 3393, while the remainder was shipped by plants classified in other industries. The figure of 38 percent is designated as the "coverage ratio." That is, it measures the extent to which all shipments of primary products of an industry are "covered" by plants classified in that industry. Other industries producing welded and heavy riveted pipe consisted mainly of Industry 3312, Blast Furnaces and Steel Mills with shipments totaling \$1,077 million.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

More detailed figures for this industry will appear later in the final Census report, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. Also, in this report, there will be a comprehensive discussion of such concepts as "industry," "establishment," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary reports and final reports will be issued for other industries during the coming months. A summary of preliminary United States totals for each manufacturing industry and totals for each State will also be issued shortly. Final industry reports and final State reports will be published during

the spring and summer of 1960. (Order forms which list these reports and their prices may be obtained from local U. S. Department of Commerce Field Offices or by writing to: Bureau of the Census, Washington 25, D. C.)

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE WELDED AND HEAVY-RIVETED PIPE INDUSTRY (S.I.C. CODE 3393), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	Establishments with 20 or more employees, number	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	All employees, number	Value added by manufacture, ² unadjusted
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)				
United States, total.....	98	22,635	129,875	18,390	35,915	98,117	254,740	253,512	990,530	14,289	22,084	204,325
Northeast.....	37	9,601	55,344	8,045	15,467	43,865	104,630	105,434	273,237	5,743	8,697	77,581
New Jersey.....	8	970	5,492	699	1,281	3,442	10,087	9,326	26,733	449	735	6,855
Pennsylvania.....	24	8,164	46,927	7,015	13,448	38,381	87,179	88,635	231,932	5,025	7,437	63,499
All other regions.....	61	13,034	74,531	10,345	20,448	54,252	150,110	148,078	417,293	8,546	13,387	126,744
Illinois.....	6	751	4,764	614	1,286	3,334	8,378	7,358	22,387	136	531	6,561
Michigan.....	11	2,065	13,080	1,682	3,554	9,766	26,198	26,477	50,815	733	2,503	20,616

¹Each producing State not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the State had less than 250 employees in the industry. (Additional publishable detail will appear in the final Census reports for this industry.)

²Value of shipments less cost of materials, supplies, fuel, electric energy, and contract work.

³Unadjusted value added plus the value added in the purchase and resale of products sold without further manufacture and the net change in work-in-process inventories.

⁴Includes for all establishments classified in this industry, not only (a) their value of products "primary" to the industry, but also (b) their value of "secondary" products, which are primary to other industries (c) their "miscellaneous" receipts for contract work, repair work, sales of scrap, etc., and (d) sales of products bought and resold in the same condition.

⁵Except for "Establishments with 20 or more employees, number", the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the particular industry or industry group.

Table 3.--QUANTITY AND VALUE OF WELDED AND HEAVY-RIVETED PIPE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1956 AND 1954

Product code	Product	1958						1954					
		Shipments ^{1 2}											
		Total shipments including inter-plant transfers		To other companies		Transfers to other plants of the same company		Total shipments including inter-plant transfers		To other companies		Transfers to other plants of the same company	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3393---	Welded and heavy-riveted steel pipe:												
3395001	As reported in Census of Manufactures, total....	xxx	1,726,786	xxx	xxx	xxx	xxx	8,621,276	1,551,131	8,260,594	1,468,559	360,682	82,592
3312A01	Made in steel works (Industry 3312).....	xxx	1,076,788	xxx	xxx	xxx	xxx	xxx	1,041,670	xxx	xxx	xxx	xxx
3395001	Made in pipe (Industry 3395) and other industries.....	xxx	649,998	xxx	xxx	xxx	xxx	xxx	509,461	xxx	xxx	xxx	xxx
33950--	As reported on Annual Form MA33B.....	7,129,846	1,670,077	6,863,367	1,590,487	266,479	79,590	xxx	xxx	xxx	xxx	xxx	xxx
	Detailed data by grade and shape from MA33B:												
	Carbon steel pipes and tubes:												
3395011	Standard pipe.....	2,220,801	418,680	2,150,584	405,647	70,217	13,033	2,401,178	354,486	2,317,465	343,256	83,713	11,230
3395012	Line pipe.....	2,392,996	438,249	2,374,692	435,105	18,304	3,144	2,433,619	344,595	2,412,213	341,904	21,406	2,691
3395013	Oil country goods.....	896,942	189,994	896,942	189,994	...	...	1,987,043	314,312	1,957,305	309,302	29,738	5,010
3395014	Pressure tubing.....	219,584	84,443	192,239	74,540	27,345	9,903	208,318	65,333	3,208,318	965,333	(^a)	(^a)
3395015	Mechanical tubing.....	630,048	189,041	616,314	185,710	13,734	3,331	667,698	166,244	658,612	164,196	9,086	2,048
3395019	Miscellaneous.....	266,405	62,287	241,998	56,883	24,407	5,404	255,192	51,729	207,912	43,554	47,240	8,175
	Alloy steel pipes and tubes:												
3395033	Oil country goods.....			202,503	57,817			362,346	71,771	362,346	971,771	(^a)	(^a)
3395034	Pressure tubing.....			34,267	23,169			47,545	35,012	347,545	35,012	(^a)	(^a)
3395035	Mechanical tubing.....			123,455	65,926			221,759	84,168	122,544	52,969	99,195	31,199
3395051-32-59	Other, including standard and line.....			1,182	1,003			15,802	3,431	9,15,802	9,431	(^a)	(^a)
3395051	Stainless steel pipes and tubes:												
3395055	Pressure tubing.....	18,333	52,949	18,333	52,949	(^a)	(^a)	13,266	35,303	11,930	32,116	1,336	3,187
	Mechanical tubing.....	10,858	43,744	10,858	43,744	(^a)	(^a)	7,570	24,747	6,465	22,536	1,105	2,161

xxx Not applicable.

¹Excludes shipments of steel processed on a conversion basis for nonsteel producing companies.²Figures on receipts and production are available in Facts for Industry Series M33B, "Steel Mill Products." Net shipments figures are also available in this series.³Transfers to other plants of the same company are included with shipments to other companies.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC(P)-33D-2

IRON AND STEEL FORGINGS INDUSTRY

(Industry Code 3391--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Iron and Steel Forgings Industry shipped products valued at \$670 million, an increase of 11 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 9 percent from 1954 to 1958 to a total of 36.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$320 million in 1958, an increase of 5 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE IRON AND STEEL FORGINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3391)

Item	Unit of measure	1958 ¹	1954 ²	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	36.3	39.8	-9
Payroll.....	Million dollars...	213.3	201.9	+6
Production workers:				
Number.....	Thousands.....	29.0	33.0	-12
Man-hours.....	Millions.....	54.4	65.1	-17
Wages.....	Million dollars...	157.9	155.3	+2
Value added by manufacture, unadjusted ³.....	...do.....	319.8	304.3	+5
Value added by manufacture, adjusted ⁴.....	...do.....	309.4	294.1	+5
Cost of materials, fuel, electricity, and contract work ⁵.....	...do.....	348.7	297.6	+17
Value of shipments ⁶.....	...do.....	669.8	603.2	+11
Capital expenditures, new.....	...do.....	13.3	15.9	-16
Number of establishments with 20 or more employees ⁷	Number.....	186	182	+2

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 250-375 preliminary Census of Manufactures reports, \$35.00

The Iron and Steel Forgings Industry includes establishments engaged primarily in the manufacture of light and heavy board drop, steam hammer, upset, and press forgings with or without the use of dies. Rolling mills engaged in the production of iron and steel forgings are classified in Industry 3312, Steel Works and Rolling Mills. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Iron and Steel Forgings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Iron and Steel Forgings Industry amounted to \$670 million. Of this total, \$553 million were products primary to the industry.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing

in table 3, indicates that \$759 million of iron and steel forgings were shipped by all producers of these products. Of this total, \$553 million, or 73 percent, were shipped by plants classified in Industry 3391, Iron and Steel Forgings, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

Table 2.--GENERAL STATISTICS FOR THE IRON AND STEEL FORGINGS INDUSTRY (S.I.C. CODE 3391), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
UNITED STATES, TOTAL...	36,337	213,254	28,976	54,362	157,946	319,766	309,405	669,776	13,252	186	39,771	304,258
Northeast.....	10,554	56,815	8,376	15,689	41,259	82,597	79,729	162,932	3,280	61	13,356	98,837
Massachusetts.....	2,668	15,649	2,055	4,044	11,132	21,715	21,298	43,152	798	10	2,721	20,224
New Jersey.....	519	2,747	437	879	2,095	4,606	4,646	7,254	190	6	931	6,632
Pennsylvania.....	4,052	21,169	3,271	5,977	15,616	33,675	32,996	66,204	1,549	25	5,261	42,665
North Central.....	23,635	143,952	18,983	35,493	108,256	217,977	209,594	458,201	8,968	93	24,881	191,656
Ohio.....	5,547	31,623	4,392	8,081	24,073	44,699	43,956	105,726	1,350	28	7,414	54,798
Illinois.....	4,647	28,838	3,738	7,019	21,293	46,469	44,852	93,052	1,544	23	5,637	45,630
Michigan.....	4,352	27,492	3,597	6,738	21,258	41,920	40,913	95,741	1,222	25	4,470	34,815
Wisconsin.....	6,398	39,285	4,860	9,347	28,639	59,507	55,311	108,902	2,945	7	5,295	43,335
South.....	763	3,984	580	1,191	2,752	7,091	7,186	14,172	355	11	533	4,021
Texas.....	421	2,253	321	678	1,596	4,566	4,516	9,395	234	7	244	2,172
Pacific.....	1,385	8,503	1,037	1,989	5,679	12,101	12,896	34,471	649	21	1,000	9,742
California.....	1,251	7,720	941	1,813	5,206	10,991	11,840	31,896	636	17	853	8,608

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF IRON AND STEEL FORGINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Iron and Steel Forgings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3391--	Iron and steel forgings, total.....	(NA)	759,488	(NA)	704,624
33911--	Drop, upset, and press steel forgings (closed die) ¹	(NA)	547,267	1,294,179	513,873
3391111	Carbon steel.....	711,822	278,922	799,479	256,024
3391131	Alloy steel (excluding stainless).....	367,991	213,391	479,473	224,405
3391151	Stainless steel.....	9,622	38,548	15,227	33,444
3391100	Drop, upset, and press steel forgings, not specified by grade.....	(NA)	16,406	...	...
33912--	Open die or smith forgings ¹ :				
	Made in steel works (Industry 3312).....	103,745	101,745	(NA)	101,999
	Made in steel forgings (Industry 3391) and other industries.....	146,064	97,742	(NA)	86,324
	Total, all industries.....	249,809	199,487	324,183	188,323
3391211	Carbon steel.....	110,956	54,503	165,964	70,559
3391231	Alloy steel (except stainless).....	123,013	122,293	151,733	103,714
3391251	Stainless steel.....	7,459	17,803	6,486	14,010
3391200	Open die or smith forgings, not specified by grade.....	8,381	4,908	...	.. ..
3391000	Iron and steel forgings, not specified by kind ²	(NA)	12,734	(NA)	2,428

NA Not available.

¹These figures are not strictly comparable with tonnage figures shown in Facts for Industry Series M530, "Commercial Steel Forgings," in that the latter includes only forgings "for sale," whereas the 1958 and 1954 Censuses of Manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the monthly Facts for Industry series is not possible. Forgings produced and consumed within the same plant are not included in either the Census or the Facts for Industry figures. The annual totals reported in the monthly Facts for Industry survey for commercial steel forgings were as follows:

Item	1958 (short tons)	1954 (short tons)
Drop and upset steel forgings:		
Carbon.....	528,716	644,185
Alloy, including stainless.....	295,141	405,618
Press and open hammer steel forgings:		
Carbon.....	92,096	165,693
Alloy, including stainless.....	163,480	185,995

²Includes wrought iron forgings.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-33D-3

PRIMARY METAL INDUSTRIES, N.E.C., INDUSTRY

(S.I.C. CODE 3399)

(Advance information on industries and products in the 1958 Census of Mineral Industries. This report will be superseded by a 1958 Census of Mineral Industries final report, which, in turn, will be included in Volume I, Summary and Industry Statistics)

During 1958, manufacturers in the Primary Metal Industries, Not Elsewhere Classified Industry shipped products valued at \$752 million, an increase of 38 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 12 percent from 1954 to 1958 to a total of 28.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$284 million in 1958, an increase of 35 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PRIMARY METAL INDUSTRIES, N.E.C. INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3399)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	28.1	25.1	+12
Payroll.....	Million dollars...	162.0	116.3	+39
Production workers:				
Number.....	Thousands.....	21.5	19.7	+9
Man-hours.....	Millions.....	42.4	40.2	+5
Wages.....	Million dollars...	112.8	83.2	+36
Value added by manufacture, unadjusted ².....	...do.....	288.2	210.5	+37
Value added by manufacture, adjusted ³.....	...do.....	283.7	210.8	+35
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	463.9	332.8	+39
Value of shipments ⁵.....	...do.....	752.0	544.8	+38
Capital expenditures, new.....	...do.....	21.8	14.9	+46
Number of establishments with 20 or more employees.....	Number.....	235	203	+16

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 34

GROUP 35

The Primary Metal Industries, N.E.C. Industry includes establishments engaged primarily in the manufacture of cold-rolled steel strip (including razor-blade strip), cold-rolled steel sheets, cold-finished steel bars, non-ferrous forgings, ferrous and nonferrous flakes and powders and other primary metal products, not elsewhere classified. Establishments primarily engaged in annealing and heat treating metal for the trade are also included in this industry. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Primary Metal Industries, N.E.C. Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Primary Metal Industries, N.E.C. Industry amounted to \$752 million. Of this total, \$677 million were products primary to the industry, \$54 million were products primary to other industries, and \$21 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$2,709 million of primary metal products, n.e.c. were shipped by all producers of these products. Of this total, \$677 million, or 25 percent, were shipped by plants classified in Industry 3399, Primary Metal Industries, N.E.C. while the remainder was shipped by plants classified in other industries, mainly Industry 3312, Blast Furnaces and Steel Works.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE PRIMARY METAL INDUSTRIES, N.E.C., INDUSTRY (S.I.C. CODE 3399), BY REGIONS AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	28,082	162,047	21,522	42,374	112,841	288,238	283,706	752,013	21,760	235	25,060	210,482
New England.....	4,826	27,203	3,742	7,347	19,089	48,700	47,566	110,717	3,259	24	3,203	29,744
Connecticut.....	2,850	15,956	2,215	4,315	11,350	30,029	29,530	68,524	2,138	12	1,584	16,902
Middle Atlantic.....	7,944	45,301	6,185	12,241	32,582	76,688	76,196	192,681	6,121	57	8,734	64,325
New York.....	3,084	17,654	2,564	5,182	14,011	24,362	24,588	54,644	1,807	18	2,885	17,877
New Jersey.....	1,488	8,254	1,072	2,212	5,437	17,194	17,228	35,631	1,699	16	1,935	14,842
Pennsylvania.....	3,372	19,393	2,549	4,847	13,134	35,132	34,380	102,406	2,615	23	3,912	31,605
East North Central.....	11,592	69,303	8,820	17,287	47,611	126,809	123,313	376,167	9,438	105	10,456	93,956
Ohio.....	5,098	30,975	3,867	7,374	21,544	47,261	42,662	128,346	2,024	29	4,681	38,100
Indiana.....	1,216	7,083	918	1,782	4,951	16,104	16,118	59,852	1,353	8	1,030	13,610
Illinois.....	2,158	12,080	1,684	3,303	8,353	24,423	25,236	63,271	1,656	24	2,044	18,532
Michigan.....	2,817	17,494	2,137	4,383	11,790	36,411	36,668	120,299	4,180	36	2,378	21,399
Wisconsin.....	303	1,671	214	445	973	2,610	2,629	4,399	225	8	322	2,313
West North Central.....	335	1,843	257	510	1,157	3,250	3,284	4,731	277	6	232	1,812
South.....	1,315	6,926	1,006	1,935	4,768	11,731	12,237	29,715	1,204	15	636	5,952
West.....	2,070	11,471	1,512	3,054	7,634	21,060	21,110	38,002	1,461	28	1,797	14,692

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 34

GROUP 35

Table 3.—QUANTITY AND VALUE OF PRODUCTS OF THE PRIMARY METAL INDUSTRIES, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Plumbing Fixtures and Fittings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	1958						1954					
		Shipments ¹			Shipments ¹			Shipments ¹			Shipments ¹		
		Total shipments including interplant transfers		To other companies		Transfers to other plants of the same company		Total shipments including interplant transfers		To other companies		Transfers to other plants of the same company	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3399---	Primary metal products, n.e.c., total.....	xxx	2,708,416	xxx	xxx	xxx	xxx	xxx	2,084,326	xxx	xxx	xxx	xxx
3399101	Cold-rolled steel sheet and strip: As reported in Census of Manufactures, total.....	xxx	2,083,625	xxx	xxx	xxx	xxx	11,734,238	1,642,491	10,244,764	1,456,000	1,689,274	135,891
	Made in steel works (Industry 3312).....	xxx	1,830,086	xxx	xxx	xxx	xxx	xxx	1,498,491	xxx	xxx	xxx	xxx
	Made in cold-rolling (Industry 3399).....	xxx	253,539	xxx	xxx	xxx	xxx	xxx	144,042	xxx	xxx	xxx	xxx
	Made in other industries.....	12,555,219	2,073,338	10,696,355	1,831,358	1,858,964	241,085	xxx	xxx	xxx	xxx	xxx	xxx
	Detailed data by grade and shape from MA33B:												
3399111	Carbon steel sheet.....	11,318,084	1,539,307	9,532,192	1,320,256	1,786,492	219,091	10,111,983	1,132,667	8,400,699	1,009,645	1,211,294	122,692
3399115	Carbon steel strip.....	824,638	187,296	768,585	175,894	56,073	11,362	1,470,591	240,169	1,021,476	188,678	449,115	51,791
3399131	Alloy steel sheet.....	25,155	25,155	212,449	25,155	3,606	1,771	58,523	10,455	51,273	4,608	7,230	847
3399135	Alloy steel strip.....	13,203	11,436	9,597	9,465	3,606	1,771	25,472	12,862	12,553	10,050	12,119	2,812
3399151	Stainless steel sheet.....	97,722	121,382	47,722	212,382	121,382	6,001	86,999	80,234	80,106	80,234	6,073	5,151
3399155	Stainless steel strip.....	179,503	188,822	166,810	179,221	12,612	6,001	190,070	160,923	178,037	158,325	2,553	2,598
3399201	Cold-finished steel bars and bar shapes: As reported in Census of Manufactures, total.....	xxx	333,326	xxx	xxx	xxx	xxx	1,280,051	277,078	1,244,630	269,991	35,421	7,087
	Made in steel works (Industry 3312).....	xxx	124,942	xxx	xxx	xxx	xxx	xxx	105,206	xxx	xxx	xxx	xxx
	Made in cold-rolling (Industry 3399).....	xxx	208,384	xxx	xxx	xxx	xxx	xxx	171,872	xxx	xxx	xxx	xxx
	As reported on Annual Form MA33B.....	1,148,151	331,530	1,099,226	317,523	48,725	14,007	xxx	xxx	xxx	xxx	xxx	xxx
	Detailed data by grade from MA33B:												
3399211	Carbon steel bars.....	942,442	210,942	907,422	203,790	35,320	7,152	1,041,262	181,581	1,018,462	178,007	22,800	3,574
3399231	Alloy steel bars.....	158,763	58,941	146,217	54,064	12,546	4,877	200,533	52,934	188,364	49,858	12,169	3,076
3399251	Stainless steel bars.....	46,946	61,697	45,587	59,669	1,399	1,978	38,256	42,563	37,804	42,126	452	437
33994--	Nonferrous forgings.....	xxx	145,772	xxx	xxx	xxx	xxx	xxx	112,359	xxx	xxx	xxx	xxx
3399411	Copper and copper-base alloy forgings.....	10,002	14,325	xxx	xxx	xxx	xxx	15,582	18,390	xxx	xxx	xxx	xxx
	Aluminum and aluminum-base alloy forgings:												
	Closed-die.....	22,055	68,188	xxx	xxx	xxx	xxx	xxx	73,823	xxx	xxx	xxx	xxx
	Open-die.....	3,505	5,953	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
3399433	Magnesium and magnesium-base alloy forgings.....	xxx	33,379	xxx	xxx	xxx	xxx	xxx	1,504	xxx	xxx	xxx	xxx
3399451	Titanium forgings.....	884	219,811	xxx	xxx	xxx	xxx	xxx	17,913	xxx	xxx	xxx	xxx
3399461	Other nonferrous metal forgings.....	(NA)	4,076	xxx	xxx	xxx	xxx	xxx	729	xxx	xxx	xxx	xxx
3399400	Nonferrous forgings, not specified by type.....	(NA)	53,125	xxx	xxx	xxx	xxx	xxx	50,349	xxx	xxx	xxx	xxx
33995--	Metal powders and paste.....	13,867	15,409	xxx	xxx	xxx	xxx	23,755	18,159	xxx	xxx	xxx	xxx
3399511	Aluminum (aluminum content only) ⁶	16,017	16,704	xxx	xxx	xxx	xxx	14,392	11,942	xxx	xxx	xxx	xxx
3399533	Copper and copper base alloy (copper content only) ⁶	(NA)	19,529	xxx	xxx	xxx	xxx	xxx	19,674	xxx	xxx	xxx	xxx
3399598	Other metal powders.....	(NA)	1,483	xxx	xxx	xxx	xxx	xxx	574	xxx	xxx	xxx	xxx
3399500	Metal powders and paste, not specified by type.....	xxx	84,804	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
3399611	Metal treating for the trade, heat treating, pickling, annealing, etc.) ⁶	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
3399000	Primary metal industries, n.e.c., products not specified by type.....	xxx	7,964	xxx	xxx	xxx	xxx	xxx	2,049	xxx	xxx	xxx	xxx

xxx Not applicable. MA Not available. For product classes 33921 and 33992, excludes shipments of steel processed on a conversion basis for nonsteel producing companies. In addition, figures on receipts and production of these products are available in Facts for Industry Series M33B, "Steel Mill Products." Net shipments figures are also available in this series. Transfers to other plants of this same company are included with shipments to other companies. Magnesium and magnesium-base alloy forgings (3399451) are included with "other nonferrous forgings (3399498)." Figures are also shown in Facts for Industry Series M33-2 "Aluminum Ingot and Mill Products and Magnesium Mill Products." The difference between the 1958 figures obtained in the monthly series, 12814 short tons, and the Census of Manufactures result from revision obtained in the Census of Manufactures and a few fiscal year reports received in the Census of Manufactures. Figures are also shown in Facts for Industry Series M33B-04, "Shipments of Copper-Base Mill and Foundry Products." Consists almost exclusively of receipts for work done on materials owned by others. Includes only work done by establishments classified in industry 3399. Receipts for contract and commission work for Industry 3399 in 1954 totaled \$68,743 thousand. Most of this value represented receipts for heat treating operations.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC (P) -33D-4

WIRE DRAWING INDUSTRY

(Industry Code 3392--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Wire Drawing Industry shipped products valued at \$1,478 million, an increase of 15 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 54.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$578 million in 1958, an increase of 23 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuel, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE WIRE DRAWING INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3392)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	54.2	54.9	-1
Payroll.....	Million dollars...	301.7	250.6	+20
Production workers:				
Number.....	Thousands.....	41.8	43.2	-3
Man-hours.....	Millions.....	83.5	87.2	-4
Wages.....	Million dollars...	214.0	182.4	+17
Value added by manufacture, unadjusted ².....	..do.....	568.3	465.7	+22
Value added by manufacture, adjusted ³.....	..do.....	577.6	469.0	+23
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	907.6	821.0	+11
Value of shipments ⁵.....	..do.....	1,478.5	1,288.8	+15
Capital expenditures, new.....	..do.....	38.6	35.7	+8
Number of establishments with 20 or more employees ⁶	Number.....	161	145	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Wire Drawing Industry includes establishments engaged primarily in drawing wire from purchased iron, steel, or nonferrous metal rods or bars, and which may be engaged in the further manufacture of products made from wire. Rolling mills engaged in the production of ferrous wire are classified in Industry 3312, Blast Furnaces and Steel Works and establishments primarily engaged in rolling and drawing nonferrous metals in Group 335, Nonferrous Rolling and Drawing. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Wire Drawing Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and

other receipts of establishments classified in the Wire Drawing Industry amounted to \$1,478 million.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE WIRE DRAWING INDUSTRY (S.I.C. CODE 3392) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,213	301,672	41,838	83,483	213,976	568,317	577,571	1,478,488	38,572	161	54,873	465,654
New England.....	12,213	65,252	9,615	19,619	45,719	114,296	116,139	272,715	7,256	37	12,103	100,528
Massachusetts.....	4,434	25,303	3,486	6,746	18,707	44,170	42,288	88,894	3,102	16	4,578	39,291
Rhode Island.....	3,846	18,744	3,105	6,690	13,376	31,053	35,135	95,408	1,090	7	3,657	28,067
Middle Atlantic.....	17,095	94,813	12,977	25,721	65,843	184,783	184,924	467,102	14,869	50	17,665	135,222
New York.....	7,055	38,435	5,237	10,491	26,448	71,325	71,463	208,489	8,732	19	7,015	46,429
New Jersey.....	5,729	33,127	4,281	8,456	22,577	74,236	73,071	161,695	4,908	18	6,293	58,119
Pennsylvania.....	4,311	23,251	3,459	6,774	16,818	39,222	40,390	96,918	1,229	13	4,357	30,673
North Central.....	20,653	117,695	16,062	32,195	85,568	214,707	222,750	556,657	12,977	55	21,829	197,582
Ohio.....	5,492	28,838	4,487	8,690	22,439	47,964	48,060	96,405	2,004	9	7,271	57,373
Indiana.....	5,446	29,484	4,320	8,899	22,003	58,835	61,719	167,308	5,335	14	5,490	53,724
Illinois.....	5,484	34,094	4,220	8,444	24,675	63,131	63,762	194,074	2,785	19	4,852	50,148
Michigan.....	1,803	10,634	1,386	2,811	7,489	17,643	18,988	45,547	1,135	5	2,453	18,682
South.....	2,897	16,209	2,192	4,312	11,411	39,847	37,950	126,783	2,357	9	2,108	21,506
Pacific.....	1,335	7,703	992	2,086	5,435	14,684	15,808	55,231	1,113	10	1,165	10,814

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 34

GROUP 35

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF WIRE AND WIRE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Wire Drawing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product Code	Product	Total shipments including interplant transfers ¹		Commercial shipments		Interplant transfers		Produced and consumed in manufacture of insulated wire and cable and other fabricated products	Shipments of products made from materials owned by others
		Quantity	Value	Quantity	Value	Quantity	Value		
		(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)		
1958 ²									
3392---	Wire drawing, including wire products, total ³	xxx	3,534,331	xxx	xxx	xxx	xxx	xxx	(2)
3392101	Steel wire: ⁴								
	Made in steel works (Industry 3312).....	xxx	343,254	xxx	(NA)	xxx	(NA)	xxx	
	Made in wire drawing (Industry 3392) and other industries.....	xxx	210,544	xxx	(NA)	xxx	(NA)	xxx	
	Total as reported in Census of Manufactures.....	xxx	553,798	xxx	(NA)	xxx	(NA)	xxx	
	Total as reported on Form MA 33B.....	2,072,390	556,712	1,880,919	507,412	191,471	49,300	xxx	
	Detailed data by type and grade: ⁵								
3392111	Plain carbon wire.....	1,613,850	366,709	1,471,453	332,331	142,397	34,378	xxx	
3392115	Galvanized carbon wire.....	312,460	81,255	267,312	69,701	45,148	11,554	xxx	
3392119	Other coated carbon wire.....	82,720	35,352	80,897	34,574	1,823	778	xxx	
3392131	Plain alloy wire.....	33,976	25,154	32,625	24,264	1,351	890	xxx	
3392133	Galvanized alloy wire.....								
3392139	Other coated alloy wire.....								
3392151	Stainless wire.....	29,384	48,242	28,632	46,542	752	1,700	xxx	
33922--	Aluminum and aluminum-base alloy wire: ⁶								
	Made in aluminum rolling mills (Industry 3352)	15,077	18,250	13,065	15,948	2,012	2,302	45,447	(2)
	Made in wire drawing (Industry 3392) and other industries.....	23,341	21,543	14,762	14,375	8,579	7,169	54,097	
	Total, all industries.....	38,418	39,793	27,827	30,323	10,591	9,470	99,544	
3392211	Bare wire conductor.....	17,600	14,817	9,116	7,768	8,484	7,049	94,229	
3392251	Bare wire, other than conductor.....	20,818	24,976	18,711	22,555	2,107	2,421	5,315	
33923--	Copper wire and cable: ⁷								
	Made in copper rolling mills (Industry 3351)...	143,628	118,289	79,097	70,000	64,531	48,289	17,738	
	Made in wire drawing (Industry 3392) and other industries.....	103,774	85,657	64,193	60,747	39,581	24,910	483,754	
	Total, all industries.....	247,402	203,946	143,290	130,747	104,112	73,199	501,492	
3392311	Copper wire, bare and tinned for electrical transmission.....	172,920	131,117	89,477	74,243	83,443	56,874	455,007	
3392315	Other copper wire, bare and tinned.....	8,836	7,368	6,697	5,673	2,139	1,695	2,565	
3392351	Copper-base alloy wire for electrical transmission.....	5,185	4,575	4,376	3,818	809	757	42,950	
3392359	Other copper-base alloy wire.....	36,587	40,511	33,076	37,348	3,511	3,163	970	
3392371	Copper strand and cable, except insulated.....	23,874	20,375	9,664	9,665	14,210	10,710	xxx	
3392411	Other nonferrous metal wire:								
	Made in rolling mills, n.e.c. (Industry 3359)...	xxx	7,850	xxx	7,850	xxx	...	xxx	
	Made in wire drawing (Industry 3392) and other industries.....	xxx	20,517	xxx	20,517	xxx	...	xxx	
	Total, all industries.....	xxx	28,367	xxx	28,367	xxx	...	xxx	
3392000	Wire drawing, not specified by kind.....	xxx	6,459	xxx	6,459	xxx	...	xxx	
1954									
3392---	Wire drawing, including wire products, total ³	xxx	3,068,439	xxx	(NA)	xxx	(NA)	...	...
3392101	Steel Wire: ⁴								
	Made in steel works (Industry 3312).....	xxx	288,742	xxx	(NA)	xxx	(NA)	xxx	xxx
	Made in wire drawing (Industry 3392) and other industries.....	xxx	176,250	xxx	(NA)	xxx	(NA)	xxx	xxx
	Total as reported in Census of Manufactures.....	2,225,109	464,992	2,004,017	421,425	221,092	43,567	xxx	xxx
	Detailed data by type and grade: ⁵								
3392111	Plain carbon wire.....	1,731,980	309,131	1,564,029	277,198	167,951	31,933	xxx	xxx
3392115	Galvanized carbon wire.....	358,336	76,315	309,413	66,940	48,923	9,375	xxx	xxx
3392119	Other coated carbon wire.....	67,779	22,759	67,492	22,663	287	96	xxx	xxx
3392131	Plain alloy wire.....	40,292	23,753	37,084	22,605	3,208	1,148	xxx	xxx
3392133	Galvanized alloy wire.....								
3392139	Other coated alloy wire.....								
3392151	Stainless wire.....	26,722	33,034	25,999	32,019	723	1,015	xxx	xxx
33922--	Aluminum and aluminum-base alloy wire: ⁶								
	Made in aluminum rolling mills (Industry 3352)	(NA)	16,854	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Made in wire drawing (Industry 3392) and other industries.....	(NA)	11,100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Total, all industries.....	27,509	27,954	4,271	25,157	3,238	2,797	82,843	61
3392211	Bare wire conductor.....	8,497	7,111	7,118	6,319	1,379	792	82,843	...
3392251	Bare wire, other than conductor.....	19,012	20,843	17,153	18,838	1,859	2,005	...	61
33923--	Copper wire and cable: ⁷								
	Made in copper rolling mills (Industry 3351)...	(NA)	145,648	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Made in wire drawing (Industry 3392) and other industries.....	(NA)	84,472	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	Total, all industries.....	277,377	230,120	181,107	156,218	96,270	73,902	416,824	7,511
3392311	Copper wire, bare and tinned for electrical transmission.....	163,925	126,711	84,199	66,006	79,726	60,705	382,337	6,356
3392315	Other copper wire, bare and tinned.....	19,577	15,747	13,160	10,577	6,417	5,170	858	...
3392351	Copper-base alloy wire for electrical transmission.....	6,325	5,833	6,325	5,833	...	...	15,786	286
3392359	Other copper-base alloy wire.....	46,518	47,205	45,452	46,174	1,066	1,031	1,130	434
3392371	Copper strand and cable, except insulated.....	41,032	34,624	31,971	27,628	9,061	6,996	16,713	435
3392411	Other nonferrous metal wire:								
	Made in rolling mills, n.e.c. (Industry 3359)...	xxx	22,180	xxx	xxx	xxx	xxx	xxx	xxx
	Made in wire drawing (Industry 3392) and other industries.....	xxx		xxx	xxx	xxx	xxx	xxx	
	Total, all industries.....	(NA)		(NA)	(D)	(NA)	(D)	(D)	...
3392000	Wire drawing, not specified by kind.....	(NA)	994	(NA)	994	...	...	...	...

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF WIRE AND WIRE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (Short tons)	Value (\$1,000)	Quantity (Short tons)	Value (\$1,000)
34810—	Wire drawing, including wire products—Continued				
	Nails, spikes, brads, and tacks:				
	Made in steel works (Industry 3312).....	xxx	96,188	xxx	98,496
	Made by wire drawers (Industry 3392).....	xxx	13,127	xxx	12,371
	Made in nails and spikes industry (Industry 3481) and other industries.....	xxx	52,468	xxx	42,239
	Total, all industries.....	xxx	161,783	xxx	153,106
	Steel wire nails, spikes, and brads:				
3481011	Bright.....	293,350	62,588	407,861	66,359
3481013	Galvanized.....	73,114	20,671	82,017	19,376
3481017	Cement-coated.....	63,133	14,359	73,559	12,670
3481019	Other.....	28,423	9,643	30,064	9,646
3481023	Steel wire staples.....	81,237	20,758	(NA)	15,844
3481027	Steel wire tacks.....	1,577	863		
3481031	Steel cut nails, spikes, and brads (including horseshoe nails and track spikes).....	87,889	17,613	78,450	13,495
3481035	Steel cut tacks:				
	Quantity reported.....	10,365	6,429	13,617	7,465
	Quantity not reported.....	...	1,560	...	568
3481051	Nonferrous nails, brads, tacks and staples.....	1,953	2,051	(NA)	5,429
3481097	Ferrous nails, spikes, brads, and tacks, not specified by kind..	xxx	1,227	xxx	...
3481000	Nails, spikes, brads and tacks, not specified by kind.....	xxx	4,021	xxx	2,254
34891—	Wire springs:				
	Made by wire drawers (Industry 3392).....	xxx	16,332	xxx	11,317
	Made in wirework n.e.c. (Industry 3489) and other industries....	xxx	279,962	xxx	277,803
	Total, all industries.....	xxx	296,294	xxx	289,120
	Upholstery and furniture springs, unassembled:				
3489111	Seat and back springs for motor vehicles:				
	Quantity reported.....	122,349	61,700	168,729	88,117
	Quantity not reported.....	...	14,844	...	...
3489113	Springs for mattresses and bed springs:				
	Quantity reported.....	15,132	7,049	14,489	5,114
	Quantity not reported.....	...	1,107	...	2,048
3489117	Spring units for box springs, innerspring mattresses, and dual purpose sleep furniture:				
	Quantity reported.....	62,085	30,730		
	Quantity not reported.....	...	22,191		
3489118	Spring units for upholstered furniture:				
	Quantity reported.....	23,090	10,428		58,191
	Quantity not reported.....	...	3,316		
3489119	Other upholstery and furniture springs, (unassembled):				
	Quantity reported.....	7,592	2,916	23,157	8,479
	Quantity not reported.....	...	473	...	1,860
3489151	Precision mechanical springs:				
	Quantity reported.....	98,024	101,137	98,163	79,738
	Quantity not reported.....	...	8,017	...	18,311
3489198	Other wire springs:				
	Quantity reported.....	28,129	15,578	29,005	15,560
	Quantity not reported.....	...	3,916	...	4,769
3489100	Wire springs, not specified by kind.....	xxx	12,892	xxx	6,933
34892—	Noninsulated wire rope, cable, and strand, except copper:				
	Made by wire drawers (Industry 3392).....	xxx	106,320	xxx	99,164
	Made in wirework, n.e.c. (Industry 3489) and other industries....	xxx	120,736	xxx	94,780
	Total, all industries.....	xxx	227,056	xxx	193,944
3489211	Iron and steel wire rope and cable.....	187,395	125,025	169,076	106,877
3489221	Composite strand, rope and cable, including wire strands of different metals (except ACSR):				
	Quantity reported.....	18,894	10,123	7,350	4,906
	Quantity not reported.....	...	100	...	610
3489231	Iron and steel wire strand (including guard rail cable):				
	Quantity reported.....	53,574	21,515	79,517	29,228
	Quantity not reported.....	...	4,769	...	...
3489261	Aluminum cable-steel reinforced (ACSR) and other bare aluminum cable.....	93,329	63,670	98,712	51,069
3489200	Wire rope, cable, and strand (except copper) not specified by kind.....	xxx	1,854	xxx	1,254
34893—	Fencing and fence gates:				
	Made by wire drawers (Industry 3392).....	xxx	7,931	xxx	3,489
	Made in wirework, n.e.c. (Industry 3489) and other industries....	xxx	92,816	xxx	89,420
	Total, all industries.....	xxx	100,747	xxx	92,909
3489311	Chain link fencing (including parts, gates and fittings):				
	Quantity reported.....	113,936	38,848	135,927	45,648
	Quantity not reported.....	...	11,454	...	...
3489321	Wire fence, woven and welded.....	159,017	35,752	208,326	33,177
3489331	Fence gates, wire (excluding chain link).....	7,097	2,024	(NA)	3,313
3489371	Ornamental lawn fence.....	19,754	5,695	37,811	8,051
3489300	Fencing and fence gates, not specified by kind.....	xxx	6,974	xxx	2,720

See footnotes at end of table.

GROUP 34

GROUP 35

Table 3.—QUANTITY AND VALUE OF WIRE AND WIRE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
	Wire drawing, including wire products—Continued	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)
34894—	Wire cloth and other woven wire products:				
	Made by wire drawers (Industry 3392).....	xxx	29,753	xxx	22,404
	Made in wirework, n.e.c. (Industry 3489) and other industries...	xxx	126,525	xxx	108,771
	Total, all industries.....	xxx	156,278	xxx	131,175
3489411	Woven wire netting (poultry, fur farm, stucco, etc.).....	52,189	16,460	65,498	16,544
		(1,000 square feet)		(1,000 square feet)	
3489421	Insect wire screening:				
	Steel.....	217,660	9,791	295,872	13,162
3489423	Copper and copper-base alloy:				
	Quantity reported.....	27,399	2,332	53,792	5,102
	Quantity not reported.....	...	589	...	...
3489425	Aluminum.....	305,356	18,239	212,874	16,279
3489429	Nonferrous metal, excluding copper, copper-base alloy and aluminum.....	xxx	(⁹)	(NA)	125
		(Short tons)		(Short tons)	
3489431	Hardware cloth.....	10,162	7,218	10,892	6,071
		(1,000 square feet)		(1,000 square feet)	
3489451	Paper machine wire cloth (foundrinier and cylinder).....	29,343	39,364	17,814	20,690
		(Short tons)		(Short tons)	
3489461	Industrial wire cloth:				
	Steel:				
	Quantity reported.....	42,066	22,223	58,993	24,536
	Quantity not reported.....	...	2,452	...	...
3489465	Nonferrous metal:				
	Quantity reported.....	8,663	5,793	(NA)	8,828
	Quantity not reported.....	...	1,241		
3489498	Other wire cloth and woven wire products (including diamond cloth, spiral cloth, drying belts, etc.).....	xxx	916,954	xxx	14,562
3489400	Wire cloth and woven wire products, not specified by kind.....	xxx	13,622	xxx	5,276
34895—	Other wire products:				
	Made by wire drawers (Industry 3392).....	xxx	37,023	xxx	15,467
	Made in wirework, n.e.c. (Industry 3489) and other industries...	xxx	366,483	xxx	297,915
	Total, all industries.....	xxx	403,506	xxx	313,382
3489511	Barbed and twisted wire.....	60,469	14,631	142,188	23,041
3489521	Wire bale ties.....	71,260	15,682	93,551	16,575
3489531	Welded steel wire fabric:				
	Concrete reinforcing mesh.....	548,631	103,738	407,308	60,491
	Other welded steel wire fabric.....	42,455	13,255	81,701	20,179
	Wire chain:				
3489541	Tire.....	28,844	20,141	19,738	9,912
3489549	Other.....	47,944	34,553	43,960	25,112
		(1,000 pounds)		(1,000 pounds)	
3489551	Wire garment hangers.....	146,672	19,517	131,816	17,042
3489598	Other wire products, including cages, guards, florists' designs, kitchenware goods, paper clips, etc.....	xxx	154,995	xxx	141,030
3489500	Other wire products, not specified by kind.....	xxx	26,994	xxx	xxx
3489000	Wire work, not specified by kind:				
	Made by wire drawers (Industry 3392).....	xxx	12	xxx	220
	Made in wirework, n.e.c. (Industry 3489) and other industries...	xxx	36,594	xxx	13,039
	Total, all industries.....	xxx	36,606	xxx	13,259

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF WIRE AND WIRE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
36311—	Wire drawing, including wire products—Continued		
	Communication wire and cable:		
	Made by wire drawers (Industry 3392).....	263,694	173,454
	Made in insulated wire and cable (Industry 3631) and other industries.....	102,374	74,919
	Total, all industries.....	366,068	248,373
3631113	Coaxial cable, lead or aluminum sheathed and flexible.....	15,142	12,907
3631121	Lead and hook-up wire.....	31,429	12,850
3631131	Drop and bridge wire.....	16,788	19,548
3631141	Distribution and jumper wire.....	20,002	10,296
3631151	Inside and duct telephone wire.....	8,485	6,427
3631171	Switchboard cable.....	22,629	15,185
	Lead-covered telephone cable (except coaxial):		
3631173	Paper and pulp insulated.....	52,445	171,160
3631175	Polyethylene insulated.....		
	Polyethylene-covered telephone cable (except coaxial):		
3631181	Paper and pulp-insulated.....	60,890	
3631185	Polyethylene insulated.....	92,948	
3631198	Other communication wire and cable.....	42,689	
3631100	Communication wire and cable, not specified by kind.....	2,621	...
36312—	Other insulated wire and cable:		
	Made by wire drawers (Industry 3392).....	524,394	532,739
	Made in insulated wire and cable (Industry 3631) and other industries.....	297,365	245,583
	Total, all industries.....	821,759	778,322
3631211	Signal wire and cable.....	7,525	18,452
3631215	Control wire and cable.....	21,742	(10)
	Magnet wire:		
	Enameled, including synthetic resin enamels (include combination of enameled with other coverings):		
	Enameled only:		
3631220	Shipped to other companies.....	98,804	126,508
3631222	Transferred to other plants of the same company.....	40,157	
	Enameled and covered:		
3631223	Shipped to other companies.....	10,236	16,569
3631224	Transferred to other plants of the same company.....	2,965	
	Not enameled:		
	Glass covered:		
3631225	Shipped to other companies.....	9,575	10,758
3631226	Transferred to other plants of the same company.....		
	Other:		
3631228	Shipped to other companies.....	9,850	20,257
3631229	Transferred to other plants of the same company.....	7,767	
	Weatherproof and slowburning wire:		
3631231	Braided (including slowburning).....	16,590	42,225
3631237	Polychloroprene (neoprene) covered.....	11,090	16,831
3631239	Other (including thermoplastic covered, etc.).....	10,422	4,166
	Building wire and cable (having underwriters' labels), except varnished cambric insulated:		
3631241	Rubber insulated fibrous covered and/or neoprene jacketed (including lead-covered)....	1167,957	45,539
3631242	Metallic armored cable.....	16,310	19,244
3631243	Nonmetallic sheathed cable.....	65,810	56,318
	Service cable (including self-supporting type, but excluding service-entrance cable):		
3631244	Rubber insulated.....	(11)	25,047
3631245	Thermoplastic insulated.....	(12)	26,619
3631246	Service-entrance cable.....	22,249	21,428
3631248	Thermoplastic (no braid).....	1266,513	16,870
3631249	Other building wire and cable (except varnished cambric insulated).....	9,245	10,005
	Power wire and cable:		
	Insulated for voltages under 601 volts:		
3631251	Portable power cables.....	19,705	19,896
3631252	Varnished cambric insulated (including varnished cambric building wire).....	3,280	4,468
3631253	Thermoplastic.....	11,202	5,310
3631254	Rubber insulated (except building wire).....	54,528	44,405
3631255	Asbestos and asbestos-varnished cambric.....	5,737	6,190
3631256	Other power wire and cable, under 601 volts.....	3,091	9,267
	Insulated for voltages of 601 volts and higher:		
3631261	Portable power cables.....	5,734	5,104
3631263	Varnished cambric insulated.....	6,581	9,454
3631265	Paper insulated.....	40,866	40,453
3631267	Rubber insulated.....	38,035	26,095
3631268	Thermoplastic.....	5,394	3,082
3631269	Other power wire and cable, 601 volts and higher.....	2,549	
	Automotive and aircraft type wire and cable:		
3631273	Aircraft wire, other than ignition.....	13,739	10,199
3631275	Insulated battery, starter, and other primary wire and cable (except cable sets)....	14,384	5,927
3631279	Other automotive and aircraft type wire and cable including secondary ignition (except cable sets, harness sets, and noninsulated battery cable).....	3,309	17,039
3631289	Marine wire and cable (U. S. Navy and Merchant Marine).....	10,369	25,558
3631298	Other insulated wire and cable.....	83,765	1063,298
3631200	Insulated wire and cable, other than communication wire and cable, not specified by kind.....	4,684	5,741
3631000	Insulated wire and cable, not specified by kind.....	7,900	...

See footnotes at end of table.

GROUP 34

GROUP 35

Table 3.—QUANTITY AND VALUE OF WIRE AND WIRE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
36993—	Wire drawing, including wire products—Continued		
	Appliance wire and cord and flexible cord sets:		
	Made by wire drawers (Industry 3392).....	38,865	43,366
	Made in insulated wire and cable (Industry 3631).....	23,864	22,202
	Made in electrical products n.e.c. (Industry 3699) and other industries.....	61,242	43,041
	Total, all industries.....	123,971	108,609
3699311	Flexible cord sets.....	43,768	40,609
3699321	Appliance wire and cord:		
	Fixture wire (including heat resistant).....	7,266	10,551
	Flexible cord (including heater cord):		
3699322	Rubber insulated.....	18,868	22,643
3699325	Thermoplastic insulated.....	11,742	10,515
3699329	Other appliance wire and cord.....	35,230	22,068
3699300	Appliance wire and cable and cord and flexible cord sets, not specified by kind.....	5,097	2,223

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

xxx Not applicable.

¹Excludes toll shipments.

²Data for receipts and toll shipments are excluded but will be included in the final report for this industry.

³Includes fabricated wire products; product class codes 34810, 34891, 34892, 34893, 34894, 34895, and 34890: insulated wire and cable; product class codes 36311, 36312, and 36310: and appliance wire and cord and flexible cord sets, product class code 36993. All of the above-listed product classes are primary to Industry 3392 as well as to other industries. The industries to which each product class is primary are listed in parentheses beside the product class totals.

⁴Excludes shipments of steel processed on a conversion basis for nonsteel producing companies.

⁵Figures on receipts and production are available in Facts for Industry Series M33B, "Steel Mill Products." Net shipments figures are also available in this series.

⁶Data on net shipments are shown for 1958 in Facts for Industry Series M-33-2, "Aluminum Ingot and Mill Products and Magnesium Mills Products." Net shipments data for the 1958 Census of Manufactures will be available in the final report for this industry.

⁷Data are also shown in Facts for Industry Series BDSAF-84, "Shipments of Copper-Base Mill and Foundry Products."

⁸Data for ACSR and aluminum cable, bare, are also published monthly in Facts for Industry Series M33-2, "Aluminum Ingot and Mill Products and Magnesium Mill Products." Net shipments as reported in this series for the year 1958 totaled 87,424 short tons. However, this quantity represents aluminum content only. The 93,329 short tons reported in the Census of Manufactures represents gross weight. In addition, an unspecified amount of ACSR was produced on a toll basis. Tonnages produced on toll are included in the data in the Facts for Industry series, but are excluded in the tonnages listed in this report.

⁹Nonferrous metal insect wire screening other than copper, copper-base alloy, and aluminum (product code 3489429) is included with product code 3489498.

¹⁰Control wire and cable included in code 3631298 in 1954.

¹¹Rubber insulated service cable (product code 3631244) combined with product code 3631241.

¹²Thermoplastic insulated service cable (product code 3631245) combined with Thermoplastic (no braid) service cable (product code 3631248).

USCOMM—DC

GROUP 34

GROUP 35



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC (P) -34A-1

CUTLERY INDUSTRY

(Industry Code 3421--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Cutlery Industry shipped products valued at \$179 million, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 21 percent from 1954 to 1958 to a total of 11,9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$125 million in 1958, an increase of 3 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE CUTLERY INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3421)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.9	15.1	-21
Payroll.....	Million dollars...	52.5	56.1	-6
Production workers:				
Number.....	Thousands.....	9.2	12.4	-26
Man-hours.....	Millions.....	18.4	24.6	-25
Wages.....	Million dollars...	34.9	39.6	-12
Value added by manufacture, unadjusted ².....	..do.....	127.6	122.4	+4
Value added by manufacture, adjusted ³.....	..do.....	124.9	120.9	+3
Cost of materials, fuel, electricity, and contract work.....	..do.....	51.6	50.6	+2
Value of shipments ⁴.....	..do.....	178.5	173.6	+3
Capital expenditures, new.....	..do.....	2.4	2.4	0
Number of establishments with 20 or more employees ⁵	Number.....	73	79	-8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Cutlery Industry includes establishments engaged primarily in the manufacture of cutlery, scissors, clippers, except hair clippers, and razors (except electric), safety-razor blades, manicure implements, pocket knives, butcher knives, tinner's snips and hedge clippers. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Cutlery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Cutlery Industry amounted to \$179 million. Of this total, \$158 million were products primary to the industry, \$15 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$165 million of cutlery were shipped by all producers of these products. Of this total, \$158 million, or 96 percent, were shipped by plants classified in Industry 3421 Cutlery while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE CUTLERY INDUSTRY (S.I.C. CODE 3421), BY REGIONS AND STATES: 1958 AND 1954

Region and State ^a	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	11,907	52,490	9,222	18,359	34,930	127,649	124,948	178,527	2,375	73	15,102	122,357
New England.....	4,894	23,084	3,610	6,993	14,693	73,252	72,858	96,206	(D)	20	6,451	63,776
Massachusetts.....	2,435	12,640	1,564	2,959	6,895	56,406	56,806	70,357	(D)	6	3,158	45,322
Rhode Island.....	723	3,053	624	1,221	2,204	5,009	4,396	7,851	48	2	1,118	5,903
Connecticut.....	1,655	7,051	1,343	2,654	5,274	11,472	11,393	17,358	252	11	1,973	11,768
Middle Atlantic.....	4,706	19,659	3,931	7,943	14,762	34,240	32,869	52,072	588	36	6,956	48,947
New York.....	2,588	10,701	2,146	4,299	8,065	17,064	16,963	29,398	256	21	4,577	32,387
New Jersey.....	1,547	6,652	1,280	2,591	4,886	12,278	12,298	17,384	287	10	2,035	14,235
Pennsylvania.....	571	2,306	505	1,053	1,811	4,898	3,608	5,290	45	5	393	2,324
East North Central.....	834	3,099	700	1,404	2,254	6,133	5,673	10,256	66	9	818	5,086
Ohio.....	394	1,560	329	621	1,108	3,332	3,168	5,406	29	5	634	3,907
South.....	1,189	5,612	751	1,613	2,523	12,229	11,728	17,082	(D)	4	591	2,880

D Withheld to avoid disclosing data for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF CUTLERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Cutlery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3421---	Cutlery, total.....	164,806	153,315
34211--	Cutlery, scissors, shears, trimmers, and snips.....	79,955	85,485
3421111	Table cutlery ¹	5,353	31,475
3421121	Kitchen cutlery.....	16,579	1,927
3421131	Butchers and meat packing cutlery.....	2,919	
3421141	Pocket knives and other folding blade knives:		
	Quantity reported.....	28,978	11,713
	Quantity not reported.....	3,458	
3421153	Scissors and shears (including household types, barber shears, pinking and tailoring shears, etc. but excluding manicure, pedicure, and surgical).....	13,691	23,425
3421155	All other scissors and shears (including hedge and grass shears and pruners except electric, aviation and tinner snips, BX and wire filament cutters, etc.).....	7,712	
3421157	Hedge trimmers and shears, power:		
	Quantity reported.....	32,478	(NA)
	Quantity not reported.....	335	
3421161	Manicure and pedicure scissors and implements.....	6,106	5,762
3421198	Other cutlery.....	8,452	7,665
3421100	Cutlery, scissors, shears, trimmers and snips, not specified by kind.....	3,894	3,500
34212--	Razors, except electric, and razor blades.....	80,513	67,830
3421211	Safety razors.....	80,513	6,310
3421251	Razor blades.....		61,520
3421000	Cutlery, not specified by kind.....	4,338	...

xxx Not applicable.

NA Not available.

¹Consists of knives, forks, spoons, and carving sets with handles of material other than metal. Knives, forks, spoons, and carving sets made wholly of metal are included in Industry 3914, Silverware and Plated Ware.²Represents the value of shipments totaling 15,872,000 units.³Represents the value of shipments totaling 125,324 units.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-34A-2

HAND TOOLS INDUSTRY

(Industry Code 3423--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Hand Tools, Not Elsewhere Classified Industry shipped products valued at \$318 million, an increase of 16 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 10 percent from 1954 to 1958 to a total of 21.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$185 million in 1958, an increase of 15 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE HAND TOOLS, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3423)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.1	23.4	-10
Payroll.....	Million dollars...	99.3	93.4	+6
Production workers:				
Number.....	Thousands.....	16.2	18.8	-14
Man-hours.....	Millions.....	31.4	36.7	-14
Wages.....	Million dollars...	67.8	66.7	+2
Value added by manufacture, unadjusted ².....	..do.....	182.2	162.1	+12
Value added by manufacture, adjusted ³.....	..do.....	185.3	161.5	+15
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	128.9	108.5	+19
Value of shipments ⁵.....	..do.....	318.0	275.1	+16
Capital expenditures, new.....	..do.....	6.3	7.0	-10
Number of establishments with 20 or more employees ⁶	Number.....	163	176	-7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Hand Tools, N.E.C. Industry includes establishments engaged primarily in the manufacture of hand tools, such as hammers, wrenches, pliers, screw drivers, shovels, rakes, forks (garden, hay, etc.), carpenters' levels, metal miter boxes, metal rules and rulers, soldering iron, trowels, carpenters' vises, and a variety of special tools used by repairmen, jewelers, stone-cutters and ironworkers. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Hand Tools, N.E.C. Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Hand Tools, N.E.C. Industry amounted to \$318 million. Of this total, \$256 million were products primary to the industry, \$33 million were products primary to other industries, and \$29 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$305 million of hand tools, n.e.c. were shipped by all producers of these products. Of this total, \$256 million, or 84 percent, were shipped by plants classified in Industry 3423, Hand Tools, N.E.C. while the remainder was shipped by plants classified in industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.—GENERAL STATISTICS FOR THE HAND TOOLS, N.E.C. INDUSTRY, (S.I.C. CODE 3423) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	21,062	99,251	16,173	31,394	67,761	182,247	185,302	318,010	6,349	163	23,385	162,051
New England.....	3,547	15,953	2,707	5,351	11,111	25,049	25,518	45,701	721	21	4,251	27,986
Massachusetts.....	1,653	7,649	1,267	2,538	5,230	10,477	10,802	20,663	354	8	2,057	13,724
Connecticut.....	1,502	6,799	1,133	2,168	4,780	12,503	12,583	21,592	263	7	1,853	12,385
Middle Atlantic.....	5,915	27,353	4,752	9,222	19,970	50,420	49,735	85,350	1,693	49	6,030	40,541
New York.....	2,965	14,223	2,353	4,518	10,452	26,245	26,419	44,720	1,063	17	2,603	17,723
New Jersey.....	1,396	5,873	1,174	2,422	4,482	11,185	10,783	19,864	296	10	1,146	6,853
Pennsylvania.....	1,554	7,257	1,225	2,282	5,036	12,990	12,533	20,766	334	22	2,281	15,963
East North Central.....	7,529	36,978	5,624	10,859	24,345	71,434	74,051	127,225	2,502	57	9,224	65,963
Ohio.....	3,256	16,672	2,507	4,857	11,434	31,615	30,273	52,629	1,274	22	3,244	24,867
Indiana.....	470	1,556	407	1,176	3,634	3,566	3,566	6,516	222	5	438	2,461
Illinois.....	2,701	13,445	1,892	3,674	8,254	25,633	26,328	42,765	653	18	3,123	21,636
Michigan.....	435	1,990	324	633	1,267	3,958	3,450	6,182	191	7	1,416	9,136
Wisconsin.....	667	3,315	494	967	2,214	6,594	10,434	19,133	162	5	1,002	7,861
West North Central.....	1,546	7,107	1,226	2,512	4,807	13,019	13,820	23,323	407	18	1,474	9,868
Minnesota.....	883	4,228	680	1,359	2,867	6,322	6,690	11,796	278	8	767	4,815
South Atlantic.....	980	4,367	804	1,476	3,355	8,457	8,105	13,070	633	3	1,059	5,764
West.....	1,376	7,005	913	1,696	3,808	12,356	12,572	20,512	371	12	1,104	9,601
California.....	1,174	6,172	756	1,366	3,230	10,701	10,587	16,720	280	8	944	8,291

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF HAND TOOLS NOT ELSEWHERE CLASSIFIED SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in Hand Tools, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3423--	Hand tools, n.e.c. total.....	xxx	304,702	xxx	261,397
34231--	Mechanics' hand service tools.....	xxx	187,687	xxx	168,800
3423111	Pliers.....	13,405	18,318	15,764	14,829
3423121	Ball peen hammers.....	1,450	2,008	1,782	1,607
	Wrenches:				
3423133	Socket.....	37,808	22,146		
3423135	Flat (open-end, box-end and combination open-end and box)...	26,991	16,931	67,494	47,024
3423137	Adjustable.....	8,464	17,611		
3423139	All other.....	11,794	9,962		
3423141	Screw drivers.....	41,856	15,947	38,384	14,881
3423198	Other mechanics' hand service tools.....	xxx	72,364	xxx	90,459
3423100	Mechanics' hand service tools, not specified by kind.....	xxx	12,400	xxx	...
34232--	Other hand tools.....	xxx	105,093	xxx	89,236
3423211	Shovels, spades, scoops, telegraph spoons, and scrapers.....	xxx	18,839	xxx	15,092
3423221	Light forged hammers (excluding ball peen hammers).....	xxx	7,778	xxx	6,466
3423231	Heavy forged tools (sledge, picks, pick mattocks, and mauls)...	xxx	3,464	xxx	4,612
3423241	Steel goods (forks, hoes, rakes, weeders, etc.).....	xxx	19,433	xxx	15,767
3423298	Other hand tools, except edge tools.....	xxx	47,961	xxx	47,299
3423200	Other hand tools, not specified by kind.....	xxx	7,618	xxx	...
3423000	Hand tools, n.e.c., not specified by kind.....	xxx	11,922	xxx	3,361

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-34A-3

EDGE TOOLS INDUSTRY

(Industry Code 3422—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Edge Tools Industry shipped products valued at \$83 million, an increase of 14 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 4 percent from 1954 to 1958 to a total of 6.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$54 million in 1958, an increase of 12 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE EDGE TOOLS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3422)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.8	7.1	-4
Payroll.....	Million dollars...	31.4	29.2	+8
Production workers:				
Number.....	Thousands.....	5.4	5.9	-8
Man-hours.....	Millions.....	10.3	11.6	-11
Wages.....	Million dollars...	22.4	21.4	+5
Value added by manufacture, unadjusted ².....	..do.....	53.4	48.0	+11
Value added by manufacture, adjusted ³.....	..do.....	54.2	48.6	+12
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	27.8	24.0	+16
Value of shipments ⁵.....	..do.....	82.9	72.9	+14
Capital expenditures, new.....	..do.....	1.5	1.6	-6
Number of establishments with 20 or more employees ⁶	Number.....	75	78	-4

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Edge Tools Industry includes establishments engaged primarily in the manufacture of all kinds of edge tools such as scythes, axes, planes, chisels, drawknives, and cutting dies for use in cutting cloth, paper and leather. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Edge Tools Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Edge Tools Industry amounted to \$83 million. Of this total, \$66 million were products primary to the industry, \$10 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$91 million of edge tools were shipped by all producers of these products. Of this total, \$66 million, or 73 percent, were shipped by plants classified in Industry 3422, Edge Tools, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each area are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE EDGE TOOLS INDUSTRY (S.I.C. CODE 3422), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States total.....	6,758	31,409	5,350	10,345	22,437	53,388	54,160	82,910	1,500	75	7,108	48,027
Northeast.....	2,908	12,836	2,332	4,500	9,245	20,797	21,956	32,581	527	39	3,281	20,937
Connecticut.....	518	2,200	426	803	1,674	3,708	3,660	5,724	73	5	575	3,260
New York.....	535	2,471	434	878	1,869	3,564	3,693	5,856	81	8	657	4,699
East North Central.....	1,428	6,978	1,026	1,951	4,425	13,132	12,836	18,568	593	14	1,303	9,855
Illinois.....	635	3,474	409	807	1,938	6,973	6,608	9,717	239	5	659	5,704
West North Central.....	1,486	7,015	1,249	2,497	5,339	10,436	10,673	17,775	118	13	1,580	10,666
South.....	542	2,591	457	863	2,043	5,792	5,322	8,438	193	5	577	4,417
West.....	394	1,989	286	534	1,385	3,231	3,373	5,548	69	4	365	2,150

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF EDGE TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Edge Tools Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3422--	Edge tools, total.....	xxx	91,248	xxx	73,686
3422011	Agricultural edged hand tools except scissors and shears (scythes, sickles, grass hooks, machetes, hay knives, and similar tools).....	xxx	2,647	xxx	5,419
3422031	Axes, adzes and hatchets.....	xxx	7,737	xxx	6,663
3422051	Cutting dies, for use in cutting cloth, paper, leather, etc. (excluding dies for cutting metal).....	xxx	14,454	xxx	18,774
3422055	Machine knives, except metal cutting.....	xxx	10,362	(1)	(1)
3422061	Can openers.....	N.A.	11,833	(NA)	9,182
3422071	Auger bits and wood bits (including expansive and power wood boring).....	4,289	4,725	6,939	4,071
3422081	Planes.....	991	2,621	1,258	3,513
3422083	Chisels.....	N.A.	4,634	4,625	4,140
3422098	Other edge tools.....	xxx	25,279	xxx	17,370
3422000	Edge tools, not specified by kind.....	xxx	6,956	xxx	4,554

xxx Not applicable

NA Not available

¹Machine knives except metal cutting were included with other edge tools in 1954

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34A-4

HARDWARE N.E.C., INDUSTRY

(Industry Code 3429--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Hardware, Not Elsewhere Classified, Industry shipped products valued at \$1,358 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 1 percent from 1954 to 1958 to a total of 88.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$763 million in 1958, an increase of 19 percent from 1954

when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE HARDWARE, N.E.C., INDUSTRY: 1958 AND 1954
(Standard Industrial Classification Code 3429)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	88.8	88.3	+1
Payroll.....	Million dollars...	437.2	380.5	+15
Production workers:				
Number.....	Thousands.....	68.5	72.7	-6
Man-hours.....	Millions.....	135.5	147.9	-8
Wages.....	Million dollars...	303.6	286.4	+6
Value added by manufacture, unadjusted ².....	..do.....	756.0	639.6	+18
Value added by manufacture, adjusted ³.....	..do.....	762.7	639.0	+19
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	593.0	483.2	+23
Value of shipments ⁵.....	..do.....	1358.3	1126.3	+21
Capital expenditures, new.....	..do.....	25.8	47.4	-46
Number of establishments with 20 or more employees ⁶	Number.....	460	361	+27

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Hardware, N.E.C., Industry includes establishments engaged primarily in the manufacture of miscellaneous metal products usually termed "hardware" and not elsewhere classified. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Hardware, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Hardware, N.E.C., Industry amounted to \$1,358 million. Of this total, \$1,152 million were products primary to the industry, \$154 million were products primary to other industries, and \$52 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,235 million of hardware, n.e.c. were shipped by all producers of these products. Of this total, \$1,152 million, or 93 percent, were shipped by plants classified in Industry 3429, Hardware, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE HARDWARE, N.E.C., INDUSTRY (S.I.C. CODE 3429), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	88,758	437,174	68,458	135,457	303,566	755,993	762,720	1,358,305	25,757	460	88,296	639,578
New England.....	16,869	75,099	12,568	24,231	51,260	118,407	114,967	202,592	5,122	58	17,757	107,970
Massachusetts.....	3,738	15,365	2,662	4,993	9,960	23,649	23,872	44,337	726	20	2,183	11,882
Connecticut.....	12,225	56,269	9,253	17,908	38,552	89,759	86,189	148,312	4,258	31	14,699	90,637
Middle Atlantic.....	14,615	68,381	11,503	22,892	48,333	121,376	122,979	222,985	4,126	109	14,094	107,243
New York.....	5,236	23,219	4,041	8,268	15,101	40,608	43,747	78,950	2,307	59	7,328	28,205
New Jersey.....	5,887	30,791	4,650	8,969	22,740	56,613	55,176	102,686	1,178	16	6,392	57,858
Pennsylvania.....	3,492	14,371	2,812	5,655	10,492	24,155	24,056	41,349	641	34	3,372	21,179
East North Central.....	41,797	223,216	32,513	64,505	157,574	383,618	384,367	692,182	10,852	169	44,938	343,486
Ohio.....	8,054	44,246	6,201	11,840	31,675	76,500	77,687	152,176	1,996	29	8,776	68,164
Indiana.....	2,706	13,114	2,056	4,113	8,469	23,948	23,407	42,206	829	19	2,356	16,804
Illinois.....	11,162	56,725	8,740	17,249	39,034	106,453	107,563	168,836	3,277	62	10,189	83,321
Michigan.....	18,054	99,408	14,021	28,102	71,449	159,564	158,419	299,765	4,346	51	21,689	161,019
Wisconsin.....	1,821	9,723	1,495	3,201	6,947	17,153	17,291	29,199	404	8	1,926	15,176
West North Central.....	1,876	8,177	1,481	2,980	5,536	15,345	16,505	31,610	543	19	1,645	10,893
Minnesota.....	593	2,344	472	932	1,526	4,680	4,554	9,640	252	6	348	1,985
Iowa.....	419	1,730	291	612	1,144	4,388	5,576	11,532	170	5	451	3,908
Missouri.....	760	3,675	629	1,238	2,536	5,294	5,390	8,826	99	5	702	4,036
South Atlantic.....	1,970	6,726	1,577	2,916	4,789	11,058	11,295	19,290	686	16	1,556	7,792
North Carolina.....	528	1,872	421	841	1,276	2,863	3,314	5,461	277	6	400	2,010
Florida.....	377	1,485	318	648	1,109	2,315	2,214	4,213	58	4	86	811
East South Central.....	2,607	8,778	2,133	4,045	6,255	17,715	20,366	34,697	1,052	12	1,709	7,855
West South Central.....	832	3,508	548	1,105	2,275	5,514	6,352	13,362	216	8	245	1,985
Pacific.....	8,061	42,549	6,037	12,580	27,144	81,576	84,329	139,196	3,121	67	6,213	51,320
California.....	7,556	40,186	5,661	11,868	25,550	76,999	79,521	131,343	2,968	62	5,796	47,840

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF HARDWARE, N.E.C., SHIPPED BY ALL PRODUCERS IN UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Hardware, N.E.C. Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3429—	Hardware, n.e.c., total.....	1,234,804	1,053,650
34291—	Transportation equipment hardware.....	472,252	441,014
3429111	Marine hardware (including shackles, rope sockets, tackle blocks, wire rope, clips, clamps, and joiners' hardware).....	32,918	22,828
3429131	Aircraft hardware.....	33,274	19,436
	Motor vehicle hardware (including lock units, door and window handles, window regulators hinges, license plate brackets, instrument panel knobs, etc.).....		
3429151	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	¹ 359,478	¹ 377,500
3429155	Shipments to all other customers.....	¹ 11,088	¹ 6,004
3429198	Other transportation equipment hardware (including railroad car hardware).....	27,980	15,246
3429100	Transportation equipment hardware, not specified by kind.....	7,514	...
34292—	Furniture hardware.....	77,502	60,189
3429211	Furniture hardware, excluding casters (including hardware for office and household furniture).....	51,527	35,799
3429251	Furniture casters and other floor protective devices (including slides, glides, furniture rests, and desk leg cups).....	21,164	24,390
3429200	Furniture hardware, not specified by kind.....	4,811	...
34293—	Vacuum bottles and jugs (excluding replacement parts).....	40,858	27,916
3429315	Vacuum (air-evacuated) bottles, pitchers, servers, etc.....	22,928	
3429317	Insulated (portable and other than air-evacuated) picnic jugs, picnic chests, coolers, etc.....	17,930	27,916
34294—	Builders' hardware.....	384,973	323,518
3429411	Padlocks.....	19,771	15,904
3429421	Door locks, locksets, and lock trim (including night latches, deadlocks, and panic devices).....	97,611	83,175
3429431	Miscellaneous sash, screen, and shelf hardware (window hardware, transom hardware, door pulls and bolts, screendoor hardware, etc.).....	53,210	52,856
3429441	Door closures and checking devices (including floor types).....	30,239	28,896
3429451	Hinges and butts, excluding cabinet hinges (including spring hinges).....	38,583	35,049
3429461	Cabinet hardware (including cabinet hinges and cabinet locks).....	34,351	29,507
3429471	Hangers, tracks and related items (including overhead door hardware).....	51,833	51,262
3429498	Other builders' hardware.....	47,333	² 26,869
3429400	Builders hardware, not specified by kind.....	12,042	...
34295—	Other hardware.....	228,861	191,281
3429512	Casket and casket shell hardware.....	10,845	10,099
3429522	Casters and wheels, for dollies and industrial hard trucks.....	33,181	28,070
3429532	Trunk and luggage hardware (including locks).....	11,181	10,717
3429552	Fireplace fixtures and equipment (including dampers and irons, and fire screens).....	12,059	13,333
3429562	Hose fittings and couplings.....	54,396	40,970
3429565	Refrigerator and stove hardware.....	27,298	27,307
3429571	Pipe hangers and pipe supports.....	13,497	(²)
3429598	Other hardware (including saddlery and harness hardware).....	53,572	60,785
3429500	Other hardware, not specified by kind.....	12,832	...
3429000	Hardware, N.E.C., not specified by kind.....	30,358	9,732

¹Includes only the value of motor vehicle hardware reported as such. It is likely that an indeterminate amount of motor vehicle hardware was reported as motor vehicle parts and classified accordingly in the Motor Vehicle and Parts Industry.²Pipe hangers and supports (product code 3429571) were included in code 3429498 (other builders' hardware) in 1954.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34A-5

TIN CANS AND OTHER TINWARE INDUSTRY

(Industry Code 3411—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Tin Cans and other Tinware Industry shipped products valued at \$1,832 million, an increase of 33 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 54.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$670 million in 1958, an increase of 34 percent from 1954 when the pre-

vious census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE TIN CANS AND OTHER TINWARE INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3411)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	54.8	55.2	-1
Payroll.....	Million dollars...	306.5	245.1	+25
Production workers:				
Number.....	Thousands.....	47.3	48.0	-2
Man-hours.....	Millions.....	95.2	97.6	-2
Wages.....	Million dollars...	251.3	202.1	+24
Value added by manufacture, unadjusted ².....	...do.....	655.1	482.3	+36
Value added by manufacture, adjusted ³.....	...do.....	670.1	500.4	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	1,167.2	897.8	+30
Value of shipments ⁵.....	...do.....	1,831.6	1,381.4	+33
Capital expenditures, new.....	...do.....	38.2	50.1	-24
Number of establishments with 20 or more employees ⁶	Number.....	193	175	+10

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Tin Cans and other Tinware Industry includes establishments engaged primarily in the manufacture of packers' cans, beer cans, general-line cans, oil containers, milk and ice-cream cans, and other tinware (except household and hospital utensils, Industry 3463, Metal Stampings) from purchased tin plate,terne plate, black plate or enameled sheet metal. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Tin Cans and other Tinware Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Tin Cans and other Tinware Industry amounted to \$1,832 million. Of this total, \$1,701 million were products primary to the industry, \$97 million were products primary to other industries, and \$34 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,766 million of tin cans and other tinware were shipped by all producers of these products. Of this total, \$1,701 million, or 96 percent, were shipped by plants classified in Industry 3411, Tin Cans and other Tinware, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE TIN CANS AND OTHER TINWARE INDUSTRY (S.I.C. CODE 3411) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,833	306,478	47,349	95,178	251,278	655,119	670,106	1,831,598	38,249	193	55,234	482,297
New England.....	753	3,936	621	1,191	2,876	9,475	9,421	26,486	309	6	859	7,060
Middle Atlantic.....	13,968	75,454	12,242	24,357	62,701	149,862	151,199	392,157	7,091	43	13,657	110,176
New York.....	3,963	20,285	3,427	6,967	16,443	36,582	37,137	96,639	2,233	17	4,171	29,141
New Jersey.....	5,637	31,808	4,998	9,653	26,759	71,355	72,370	175,272	3,432	14	4,973	48,392
Pennsylvania.....	4,368	23,361	3,817	7,737	19,499	41,925	41,692	120,246	1,426	12	4,513	32,643
East North Central.....	16,660	94,301	14,230	28,539	76,319	200,345	204,593	510,083	12,496	54	18,971	163,586
Ohio.....	2,334	12,353	1,872	3,784	9,071	27,724	29,630	69,251	4,184	17	2,155	15,607
Illinois.....	11,298	64,917	9,699	19,441	53,052	125,889	127,411	303,625	5,787	24	13,456	106,813
Wisconsin.....	2,033	11,278	1,816	3,674	9,646	33,271	33,552	94,047	1,639	7	1,918	26,661
West North Central.....	3,690	20,682	3,198	6,637	17,116	57,219	60,828	153,024	2,765	10	3,171	32,261
Missouri.....	2,243	13,099	1,984	4,178	11,084	35,142	36,403	93,312	1,542	5	2,449	22,880
South Atlantic.....	6,198	35,265	5,311	11,198	28,791	63,275	64,237	202,549	3,576	22	6,421	54,509
Maryland.....	4,269	23,731	3,711	7,782	19,733	38,841	39,133	120,239	1,084	10	4,516	34,053
East South Central.....	221	890	202	414	775	2,459	2,551	11,494	95	3	270	2,966
West South Central.....	3,446	20,601	2,930	5,916	16,752	42,194	43,893	126,749	2,410	10	3,043	27,005
Texas.....	2,127	12,607	1,791	3,548	10,057	25,605	26,488	77,206	1,917	6	1,935	16,664
Mountain.....	296	1,688	252	518	1,338	3,693	4,962	16,585	126	4	223	495
Pacific.....	9,601	53,661	8,363	16,408	44,605	126,597	128,422	392,371	9,381	41	8,616	84,236
California.....	8,129	45,488	7,103	13,882	38,052	108,126	109,573	328,619	8,337	32	7,353	69,609

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF TIN CANS AND OTHER TINWARE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Tin Cans and other Tinware Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplants transfers				
		1958			1954	
		Quantity	Quantity	Value	Quantity	Value
		(1,000 (short tons) ¹	(1,000 base-boxes) ¹	(\$1,000)	(1,000 base-boxes) ¹	(\$1,000)
3411---	Tin cans and other tinware, total.....	xxx	xxx	1,766,286	xxx	1,340,605
34111--	Metal cans ³ :					
	Reported in Census of Manufacture.....	xxx	103,579	1,754,338	90,858	*1,320,247
	Reported on monthly Form M34D.....	4,762	103,849	xxx	490,713	xxx
	Detailed data by type of can:					
3411111	Fruit and vegetable (including juice).....	1,560	33,379	(NA)	1,342	(NA)
3411113	Evaporated milk and condensed milk.....	207	5,175	(NA)	229	(NA)
3411119	Other dairy products.....	36	728	(NA)	42	(NA)
3411131	Meat (including poultry).....	136	2,950	(NA)	140	(NA)
3411141	Fish and seafood.....	124	2,843	(NA)	109	(NA)
3411145	Coffee.....	209	4,452	(NA)	179	(NA)
3411151	Lard and shortening.....	110	2,383	(NA)	120	(NA)
3411161	Soft drink cans for carbonated beverages.....			(NA)		(NA)
3411165	Soft drink cans for non-carbonated beverages (including cans for still drinks sold as soft drinks).....	37	810	(NA)	44	(NA)
3411167	Beer.....	820	16,902	(NA)	647	(NA)
3411171	Pet food.....	173	4,155	(NA)	131	(NA)
3411175	Oil (open top 1-quart and 5-quart).....	272	6,337	(NA)	273	(NA)
3411181	All other food (including soup and baby food cans).....	494	11,363	(NA)	400	(NA)
3411185	All other non-food.....	584	12,372	(NA)	487	(NA)
3411211	Metal fluid milk shipping and delivery containers (except crates).....	xxx	xxx	4,586	(1,000 units) 1,071	8,638
3411311	Tinware end products (including ice cream cans but excluding cooking and kitchen utensils).....	xxx	xxx	3,914	xxx	*11,720
3411000	Tin cans and other tinware, not specified by kind.....	xxx	xxx	3,448	xxx	...

*Revised.

xxx Not applicable.

NA Not available.

¹Reported on monthly form M34D, "Metal Cans".

²The monthly survey data are reported in terms of base-boxes of steel consumed in the manufacture of cans. These base-boxes have been converted to short tons. The conversion factors used are published in the monthly Facts for Industry Series M34D, "Metal Cans."

³Metal cans are defined as single-walled containers constructed wholly of tin plate,terne plate, black plate, or waste plate which are designed for the packing of products. This term excludes steel pails, defined as single-walled shipping containers having capacities of 1-12 gallons inclusive, that are cylindrically constructed of steel sheet of 29 gauge and heavier.

⁴Represents 4,143 thousand short tons.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34A-6

HANDSAWS AND SAW BLADES

(Industry Code 3425--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Hand-Saws and Saw Blades Industry shipped products valued at \$88 million, about equal to shipments in 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 20 percent from 1954 to 1958 to a total of 5.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$54 million in 1958, an increase of 6 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE HANDSAWS AND SAW BLADES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3425)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.5	6.9	-20
Payroll.....	Million dollars...	28.5	29.3	-3
Production workers:				
Number.....	Thousands.....	4.1	5.3	-23
Man-hours.....	Millions.....	8.0	10.3	-22
Wages.....	Million dollars...	18.6	19.9	-6
Value added by manufacture, unadjusted ².....	...do.....	54.4	53.2	+2
Value added by manufacture, adjusted ³.....	...do.....	54.0	51.1	+6
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	33.1	33.8	-2
Value of shipments ⁵.....	...do.....	88.3	88.4	...
Capital expenditures, new.....	...do.....	1.2	1.6	-25
Number of establishments with 20 or more employees ⁶	Number.....	39	42	-7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00



GROUP 35

The Handsaws and Saw Blades Industry includes establishments engaged primarily in the manufacture of handsaws, saw blades for hand and power driven saws and saw accessories. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Handsaws and Saw Blades Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Handsaws and Saw Blades Industry amounted to \$88 million. Of this total, \$68 million were products primary to the industry, \$15 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 71 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, is clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicated that \$76 million of hand saws and saw blades were shipped by all producers of these products. Of this total, \$68 million, or 90 percent, were shipped by plants classified in Industry 3425, Handsaws and Saw Blades, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE HANDSAWS AND SAW BLADE INDUSTRY (S.I.C. CODE 3425) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,549	28,492	4,104	7,956	18,586	54,434	53,962	88,264	1,227	39	6,879	53,246
New England.....	1,921	9,866	1,488	2,864	6,787	23,375	23,111	36,272	445	9	2,363	22,316
Middle Atlantic.....	1,689	8,471	1,211	2,390	5,274	12,301	11,582	20,444	467	14	2,523	16,025
Pennsylvania.....	1,154	5,564	807	1,561	3,417	7,770	7,702	12,834	246	7	1,862	11,418
North Central.....	1,568	8,221	1,147	2,202	5,340	14,180	14,731	24,660	220	13	1,620	11,652
Ohio.....	277	1,295	214	465	923	1,568	1,571	3,382	17	6	412	2,400
Illinois.....	292	1,499	238	459	1,093	4,039	4,000	6,134	29	3	324	3,207
South and West.....	371	1,934	258	500	1,185	4,578	4,538	6,888	95	3	372	3,251

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF HANDSAWS AND SAW BLADES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Handsaws and Saw Blades Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3425---	Handsaws and saw blades, total.....	.....	xxx	76,012	xxx	64,540
	Power saw blades:					
	Woodworking:					
	Circular:					
3425011	Solid tooth ¹	Thousand units	(NA)	8,839	3,080	7,768
3425013	Inserted tooth.....	.....do.....	(NA)	6,059	27	5,113
	Band:					
3425015	Under 2 inches.....	Thousand feet	13,430	2,392	6,778	880
3425017	2 inches and over.....	.....do.....	565	3,098	575	3,329
3425019	All other woodworking power saw blades (scroll, jig, etc.)	.....do.....	(NA)	2,947	(NA)	2,265
	Metal:					
3425031	Circular.....	Thousand units	(NA)	3,656	(NA)	3,664
3425035	Hack (power only).....	.....do.....	2,759	4,862	3,756	4,210
3425036	Band (flexible back and spring temper metal cutting).....	Thousand feet	112,742	15,984	122,966	12,628
	Hand operated saws:					
3425041	Heavy handsaws (including cross cut and buck).....	Thousand units	218	837	776	2,175
3425043	Hacksaw blades (hand only).....	.....do.....	60,342	11,925	66,816	9,629
3425045	Carpenters crosscuts and rip saws.....	.....do.....	1,518	3,916	2,279	4,984
3425049	Other handsaws (miter, coping, pruning, compass, etc.; including handsaw frames and handsaw blades sold together or handsaw blades sold separately).....	.....do.....	(NA)	4,898	(NA)	5,943
3425000	Handsaws, saw blades and accessories, not specified by kind.....	.....	xxx	6,599	xxx	1,952

NA--Not available.

xxx Not applicable.

¹Includes all types and sizes of solid-tooth circular saw blades for industrial and home workshop type circular saws as well as saw blades for portable power saws and for sawing attachments for portable hand tools.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-34B-1

PLUMBING FIXTURES AND FITTINGS INDUSTRY

(Industry Code 3431--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Plumbing Fixtures and Fittings Industry shipped products valued at \$476 million, an increase of 2 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 28.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$244 million in 1958, an increase of 2 percent from 1954 when the pre-

vious census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE PLUMBING FIXTURES AND FITTINGS INDUSTRY: 1958 AND 1954
(Standard Industrial Classification Code)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	28.2	30.6	-8
Payroll.....	Million dollars...	139.8	132.1	+6
Production workers:				
Number.....	Thousands.....	22.9	25.7	-11
Man-hours.....	Millions.....	43.8	50.7	-14
Wages.....	Million dollars...	104.5	102.3	+2
Value added by manufacture, unadjusted ².....	..do.....	240.6	240.9	-
Value added by manufacture, adjusted ³.....	..do.....	244.4	239.5	+2
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	231.5	222.8	+4
Value of shipments ⁵.....	..do.....	475.7	468.3	+2
Capital expenditures, new.....	..do.....	12.5	12.3	+2
Number of establishments with 20 or more employees ⁶	Number.....	129	129	-

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 35

The Plumbing Fixtures and Fittings Industry includes establishments engaged primarily in the manufacture of enameled-iron, cast-iron, or pressed-metal sanitary ware, such as bathtubs, sinks, lavatories, and laundry tubs; and plumbers' brass goods and fittings such as faucets, spigots, and steam and water traps. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Plumbing Fixtures and Fittings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Plumbing Fixtures and Fittings Industry amounted to \$476 million. Of this total, \$391 million were products primary to the industry, \$53 million were products primary to other industries, and \$32 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$442 million of plumbing fixtures and fittings were shipped by all producers of these products. Of this total, \$391 million, or 88 percent, were shipped by plants classified in Industry 3431, Plumbing Fixtures and Fittings, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE PLUMBING FIXTURES AND FITTINGS INDUSTRY (S.I.C. 3431), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	28,158	139,836	22,878	43,829	104,539	240,590	244,426	475,740	12,492	129	30,612	240,944
New England.....	1,012	4,402	819	1,687	3,330	9,261	9,464	16,543	190	13	2,936	12,552
Connecticut.....	667	2,972	528	1,124	2,282	6,797	6,947	11,561	101	8	2,515	10,645
Middle Atlantic.....	3,401	16,181	2,703	5,371	11,955	29,770	29,922	60,055	1,562	28	3,535	26,455
Pennsylvania.....	2,016	9,611	1,622	3,128	7,390	15,803	15,702	29,220	665	10	1,868	14,167
East North Central.....	12,390	66,392	9,796	19,183	47,233	107,812	108,290	211,669	3,831	46	12,258	103,196
Ohio.....	5,487	27,841	4,356	8,064	20,484	44,709	45,306	90,183	1,929	18	5,627	44,700
Indiana.....	758	3,453	637	1,320	2,623	6,671	6,684	14,859	224	4	835	5,632
Illinois.....	1,855	10,146	1,492	2,998	7,361	16,675	16,626	35,064	566	12	1,396	11,875
Michigan.....	1,816	10,527	1,321	2,649	7,024	14,717	15,773	31,034	446	7	1,858	17,151
Wisconsin.....	2,474	14,425	1,990	4,152	9,741	25,040	23,901	40,529	666	5	2,541	23,836
West North Central.....	946	4,426	737	1,454	3,067	6,981	7,067	15,166	103	5	666	4,764
Missouri.....	271	955	233	490	754	1,547	1,611	3,091	62	2	338	2,137
South.....	7,491	34,131	6,341	11,303	27,788	59,948	62,148	115,331	5,478	15	8,069	65,076
West.....	2,918	14,304	2,482	4,831	11,166	26,818	27,535	56,976	1,328	22	3,145	28,897
California.....	2,881	14,130	2,451	4,732	11,025	26,441	27,143	56,325	1,299	22	3,070	28,347

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF METAL PLUMBING FIXTURES AND FITTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Plumbing Fixtures and Fittings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplants transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3431---	Metal plumbing fixtures, total.....		xxx	442,207	xxx	423,984
34311--	Metal plumbing fixtures ¹		xxx	180,336	xxx	207,236
3431100	Enameled iron and metal plumbing fixtures:					
	Reported in Census of Manufactures.....		xxx	² 168,259	xxx	² 201,624
	Reported on quarterly form M34E.....		xxx	179,292	xxx	196,704
	Drinking fountains (cast iron and other metals, concrete, and composition).....	Thousand units....	55	(NA)	38	(NA)
	Lavatories, cast iron.....	..do.....	1,301	(NA)	1,342	(NA)
	Lavatories, steel.....	..do.....	271	(NA)	248	(NA)
	Kitchen sinks, cast iron.....	..do.....	818	(NA)	1,008	(NA)
	Kitchen sink, steel.....	..do.....	1,267	(NA)	1,169	(NA)
	Porcelain enameled.....	..do.....	979	(NA)		(NA)
	Stainless.....	..do.....	289	(NA)	1,169	(NA)
	Kitchen sinks (other metals, vitreous china, and glazed earthenware).....	..do.....	2	(NA)	4	(NA)
	Wash sinks (cast iron, steel, concrete, composition, and vitreous china).....	..do.....	24	(NA)	17	(NA)
	Service sinks, cast iron.....	..do.....	84	(NA)	59	(NA)
	Service sinks (other metals, vitreous china, and glazed earthenware).....	..do.....	20	(NA)	19	(NA)
	Sink and laundry tray combinations, cast iron.....	..do.....	57	(NA)	85	(NA)
	Sink and laundry tray combinations, steel.....	..do.....	25	(NA)	³ 70	(NA)
	Laundry trays (vitreous china, cast iron, steel and glazed earthenware).....	..do.....	77	(NA)	109	(NA)
	Bathtubs, cast iron.....	..do.....	1,464	(NA)	1,507	(NA)
	Bathtubs, steel.....	..do.....	697	(NA)	564	(NA)
	Shower receptors, sold separately (steel, other metals, concrete, and composition).....	..do.....	12	(NA)	12	(NA)
	Showerstalls, including receptors, steel.....	..do.....	180	(NA)	176	(NA)
	Showerstalls, including receptors, (aluminum, monel, and other metal, concrete, and composition).....	..do.....	2	(NA)	6	(NA)
3431198	Other metal plumbing fixtures.....	..do.....	xxx	12,077	xxx	5,612
34312--	Plumbing fixture fittings and trim (brass goods).....	..do.....	xxx	249,664	xxx	216,748
	Bath and shower fittings:					
3431211	Tub fillers.....	Thousand units....	1,318	7,146	710	4,564
3431213	Tub and shower fittings.....	..do.....	1,770	16,605	1,487	15,806
3431215	Shower fittings.....	..do.....	(NA)	8,139	1,770	6,259
3431217	Bathtub faucets (for leg tubs).....	..do.....	419	1,146	467	1,401
3431218	Bath drains and overflows.....	..do.....	2,764	10,858	2,320	8,698
	Lavatory fittings:					
3431221	Combination 4" center-set fittings (with or without pop-up drains).....	..do.....	3,113	18,247	1,801	12,016
3431223	Other combination center-set fittings (with or without pop-up drains).....	..do.....	1,316	11,386	1,255	12,274
3431225	Pop-up drains, sold separately.....	..do.....	1,832	535	397	998
3431227	Single lavatory faucets (compression).....	..do.....	2,837	4,647	2,311	3,917
3431231	Deck-type sink faucets.....	..do.....	3,386	25,957	2,948	19,222
3431233	Other combinations sink faucets.....	..do.....	1,179	7,274	1,170	7,675
3431235	Single sink faucets.....	..do.....	2,747	3,603	1,886	1,852
	Miscellaneous items:					
3431241	Compression stops.....	..do.....	10,954	6,662	4,499	3,276
3431242	Compression stops and drains.....	..do.....	3,102	2,098	4,958	3,324
3431243	Sediment faucets.....	..do.....	(NA)	3,526	7,118	3,732
3431244	Double laundry-tray faucets.....	..do.....	632	2,253	676	2,069
3431245	P traps.....	..do.....	5,673	7,606	4,806	7,009
3431246	S traps.....	..do.....	1,539	2,636	1,944	3,299
3431271	Septic tanks, metal.....	Number of units...	(NA)	3,672	116	4,344
3431298	Other metal bath and shower fittings, lavatory fittings, sinks fittings, and miscellaneous items including lavatory legs, strainers, etc.....	..do.....	xxx	86,710	xxx	80,860
3431200	Plumbing fixture fittings and trim, not specified by kind.....	..do.....	xxx	19,358	xxx	14,153
3431000	Metal plumbing fixtures and fittings and trim not specified by kind.....	..do.....	xxx	12,207	xxx	xxx

xxx Not applicable.

NA Not available.

¹The quantity data for plumbing fixtures were obtained from the Census Quarterly Survey M34E. In this survey it is necessary to combine certain metal fixtures with fixtures made of other materials such as vitreous china, concrete etc. Accordingly, the quantity data do not relate exactly to the value figures shown for enameled and cast iron plumbing fixtures.²Differs from the value of shipments of metal plumbing fixtures reported in the Census Quarterly Survey due to revision reported in the Census, fiscal year reports received in the Census of Manufactures and to differing methods of reporting values in the two surveys.³Includes vitreous china fixtures.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

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HEATING AND COOKING EQUIPMENT, N.E.C., INDUSTRY

(Industry Code 3439--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Heating and Cooking Equipment, Not Elsewhere Classified, Industry shipped products valued at \$1,397 million, an increase of 14 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 10 percent from 1954 to 1958 to a total of 68.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$615 million in 1958, an increase of 5 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE HEATING AND COOKING EQUIPMENT, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3439)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	68.1	75.3	-10
Payroll.....	Million dollars...	338.7	319.3	+6
Production workers:				
Number.....	Thousands.....	50.2	57.1	-12
Man-hours.....	Millions.....	99.6	111.8	-11
Wages.....	Million dollars...	219.7	214.2	+3
Value added by manufacture, unadjusted ².....	..do.....	640.1	587.5	+9
Value added by manufacture, adjusted ³.....	..do.....	615.2	588.5	+5
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	745.7	627.3	+19
Value of shipments ⁵.....	..do.....	1,396.5	1,224.5	+14
Capital expenditures, new.....	..do.....	20.2	23.7	-15
Number of establishments with 20 or more employees ⁶	Number.....	405	425	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This industry includes establishments engaged primarily in the manufacture of heating and cooking equipment, n.e.c. According to the Standard Industrial Classification, establishments primarily engaged in manufacturing oil burners constitute a separate industry. However, a large part of the output of oil burners is produced by establishments which also produce furnaces and boilers incorporating burners into these products as well as shipping burners separately. For this reason S.I.C. Industry 3432, Oil Burners, is not shown as a separate industry but has been combined with Industry 3439. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Heating and Cooking Equipment, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Heating and Cooking Equipment, N.E.C., Industry amounted to \$1,397 million. Of this total, \$1,074 million were products primary to the industry \$239 mil-

lion were products primary to other industries, and \$84 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,233 million of heating and cooking equipment, n.e.c., was shipped by all producers of these products. Of this total, \$1,074 million, or 87 percent, were shipped by plants classified in Industry 3439, Heating and Cooking Equipment, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.--GENERAL STATISTICS FOR THE HEATING AND COOKING EQUIPMENT, N.E.C., INDUSTRY (S.I.C. CODE 3439) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	68,130	338,689	50,178	99,570	219,709	640,095	615,219	1,396,539	20,178	405	75,276	587,523
New England.....	2,184	10,851	1,635	3,380	7,051	18,241	18,460	39,331	1,015	21	2,707	19,949
Massachusetts.....	1,213	5,924	941	1,970	4,007	10,604	10,557	20,944	297	10	972	7,403
Connecticut.....	736	3,832	507	1,029	2,289	5,507	5,796	14,433	638	8	1,411	10,323
Middle Atlantic.....	18,254	90,385	13,901	27,456	62,485	168,142	167,405	361,189	5,881	104	18,395	138,547
Pennsylvania.....	8,723	42,225	6,579	12,757	29,104	84,489	84,384	168,781	3,086	46	7,695	55,681
East North Central....	26,170	134,339	18,349	36,151	83,575	258,886	261,636	570,456	6,561	134	31,684	261,645
Ohio.....	7,268	37,263	5,117	9,916	22,869	71,773	75,711	165,486	1,445	37	10,725	96,573
Indiana.....	2,933	13,965	1,872	3,572	7,635	28,341	27,054	63,006	1,042	19	3,976	26,178
Illinois.....	11,482	60,097	8,459	16,930	39,510	119,283	120,115	253,622	3,200	48	11,062	91,688
Michigan.....	2,263	11,173	1,386	2,730	6,133	17,899	17,027	43,957	337	22	3,446	30,687
Wisconsin.....	2,224	11,841	1,515	3,003	7,428	21,590	21,729	44,385	537	8	2,475	16,516
West North Central....	3,393	17,252	2,425	4,810	11,124	42,221	42,796	85,935	1,054	25	5,810	48,552
Minnesota.....	276	1,524	189	395	914	2,481	2,731	6,598	56	5	306	2,565
Missouri.....	963	3,907	706	1,348	2,638	7,707	7,715	18,236	139	10	2,042	12,702
South.....	10,510	44,911	8,269	16,361	29,629	85,768	79,773	187,417	2,646	59	9,181	54,850
Alabama.....	738	2,573	642	1,238	1,864	4,303	4,006	8,696	206	4	813	3,179
Oklahoma.....	278	1,501	220	431	825	2,777	2,889	5,795	64	4	277	2,113
West.....	7,619	40,951	5,599	11,412	25,845	68,837	45,149	152,211	3,021	62	7,497	63,978
California.....	6,905	37,693	5,065	10,420	23,610	64,103	40,535	142,683	2,841	48	6,863	60,149

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SHIPMENTS OF HEATING AND COOKING EQUIPMENT, N.E.C., BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Heating and Cooking Equipment, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments".)

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3439---	Heating and cooking equipment (except electric), not elsewhere classified, total.....		xxx	1,232,661	xxx	1,125,273
34320--	Oil burners, sold separately.....		xxx	47,610	xxx	68,490
3432010	Reported in the Census of Manufactures.....		xxx	33,909	xxx	52,945
	Reported on Annual Form MA34N.....	Units.....	414,252	37,196	xxx	(NA)
	Residential:					
3432011	Low-pressure atomizing.....	..do.....	12,328	1,039	36,448	4,892
3432013	High-pressure atomizing.....	..do.....	365,390	20,764	461,553	32,328
3432015	Rotary atomizing and vaporizing.....	..do.....	1,885	220		
3432017	Pot natural-draft vaporizing.....	..do.....			20,177	2,423
3432018	Pot mechanical-draft vaporizing.....	..do.....	2,387	93		
	Commercial and industrial:					
3432051	Low-pressure atomizing.....	..do.....	12,059	2,951	5,780	810
3432053	High-pressure atomizing.....	..do.....	13,638	4,302	14,056	4,464
3432055	Rotary atomizing.....	..do.....	6,565	7,827	10,556	8,068
3432071	Oil burners, range type (sleeve and pot type for use in water heaters, stoves, ranges, etc.).....		(NA)	1,215	xxx	(S)
3432081	Parts and attachments for oil burners (sold separately).....		xxx	8,225	xxx	13,685
3432000	Oil burners, not specified by kind.....		xxx	4,261	xxx	1,860
34391--	Warm air furnaces:					
3439100	Reported in the Census of Manufactures.....		xxx	234,776	xxx	222,500
	Reported on Annual Form MA34N.....	Units.....	1,247,805	225,726	xxx	(NA)
	Cast iron:					
	Forced-air furnaces:					
3439111	Solid fuel (coal, coke, wood).....	..do.....	218	116	1,321	300
3439115						
3439121	Oil.....	..do.....	1,777	646	3,813	1,761
3439125						
3439131	Gas.....	..do.....	45,226	6,459	41,391	8,226
3439135						
	Gravity air-flow furnaces:					
3439141	Solid fuel (coal, coke, wood).....	..do.....	(*)	(*)	16,268	3,017
3439143						
3439145	Gas and oil.....	..do.....	(*)	(*)	(*)	(*)
	Steel:					
	Forced-air furnaces:					
	Solid fuel (coal, coke, wood):					
3439151	150,000 BTU bonnet output and under.....	..do.....	11,946	3,119	10,657	2,599
3439155	Over 150,000 BTU bonnet output.....	..do.....	1,594	627	983	305
	Oil:					
3439161	150,000 BTU bonnet output and under.....	..do.....			356,289	77,953
3439165	Over 150,000 BTU bonnet output.....	..do.....	340,300	79,073	47,438	14,512
	Gas:					
3439171	150,000 BTU bonnet output and under.....	..do.....			509,355	82,495
3439175	Over 150,000 BTU bonnet output.....	..do.....	787,296	126,703	62,316	14,574
	Gravity air-flow furnaces:					
3439181	Solid fuel (coal, coke, wood).....	..do.....	426,467	44,994	25,939	3,853
3439185	Oil.....	..do.....	42,455	4,635	41,108	4,084
3439187	Gas.....	..do.....	430,526	43,353	464,968	46,928
3439100	Warm air furnaces, not specified by kind.....		...	...	xxx	3,893
34392--	Cast iron heating boilers, radiators and connectors.....		xxx	79,130	xxx	73,801
	Cast iron boilers:					
	Reported on Annual Survey Form MA34N.....	Thousand lbs.....	215,739	63,356	xxx	(NA)
	Reported in the Census of Manufactures.....	..do.....	196,455	58,624	220,241	52,601
3439211	Oil.....	..do.....	93,112	24,019	98,000	20,662
3439213	Gas.....	..do.....	84,306	29,098	67,305	20,952
3439215	Solid fuel.....	..do.....	19,037	5,507	54,936	10,987
3439230	Cast iron radiators and convectors:					
3439250	Reported in the Census of Manufactures.....		xxx	18,156	28,941	21,042
	Reported on Annual Survey Form MA34N.....	Thousand sq. ft. of radiation.....	22,350	16,754	xxx	(NA)
34393--	Steel and nonferrous convectors.....		xxx	42,357	xxx	30,567
	Nonferrous:					
3439311	Residential.....	Thousand sq. ft. equiv. direct radiation.....	(NA)	19,004	36,044	16,544
3439315	Industrial and special types (with and without an enclosure).....		23,297	12,565	10,417	5,430
	Steel:					
3439353	Residential and industrial.....		15,350	8,601	20,606	8,294
3439300	Steel and nonferrous convectors, not specified by kind.....		xxx	2,187	xxx	299

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF SHIPMENTS OF HEATING AND COOKING EQUIPMENT, N.E.C., BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3439--- 34394-- 3439400	Heating and cooking equipment (except electric), n.e.c.--Continued Water heaters, except electric: Reported in Census of Manufactures..... Reported on Annual Form MA34N..... Direct fired:	Units.....	xxx 3,116,929	153,538 *161,406	xxx xxx	138,364 (NA)
3439411 3439412	Gas: Underfired storage..... Side arm.....	..do..... ..do.....	2,874,422 39,883	*142,905 1,841	2,360,480 84,877	122,832 1,361
3439414 3439415	Oil: Underfired storage..... Side arm.....	..do..... ..do.....	30,658 826	3,289 23	23,121 3,035	1,955 66
3439417 3439418	Coal or wood tank heaters: Cast iron..... Steel.....	..do..... ..do.....	3,295	134	2,360	334
3439451 3439453 3439461 3439471 3439481 3439400	Indirect water heaters: Storage, cast or coil-type (less tank): 20 GPH and less..... 21 GPH and over..... Tanks (with or without generator coils)..... Generator coils and tank collar (sold without tank)..... Instantaneous..... Water heaters, not specified by kind.....	..do..... ..do..... ..do..... ..do..... ..do..... ..do..... ..do.....	4,620 1,325 4,400 5,416 134,927 ...	43 1,325 3,015 772 8,831 ...	(NA) (NA) 3,164 (NA) 120,287 xxx	1,211 2,060 472 5,808 2,265
34395-- 3439500	Domestic heating stoves, complete (except electric): Reported in Census of Manufactures..... Reported on Annual Form MA34N..... Gas:	Number of units... ..do.....	xxx 2,610,386	69,384 72,649	xxx xxx	70,080 (NA)
3439511 3439513 3439515 3439519 3439531	Vented circulators..... Unvented circulators..... Radiants..... All other..... Wood (sheet-metal airtight type).....	..do..... ..do..... ..do..... ..do..... ..do.....	442,695 700,344 246,854 77,585 342,140	25,978 10,220 2,831 695 2,160	385,538 770,894 275,330 (NA) (8)	17,502 8,843 4,271 548 (9)
3439551 3439553 3439555 3439557 3439558	Coal and wood (other than sheet-metal airtight type): Circulators (standard and magazine types)..... Magazine radiants..... Oaks and hot blasts..... Laundry stoves (without cored fire pots)..... All other (including kitchen heaters, caboose, schoolroom, woodbox, etc.).....	..do..... ..do..... ..do..... ..do..... ..do..... ..do.....	80,077 62,346 23,872 39,905 104,318	4,543 2,236 501 459 2,159	40,822 52,979 16,883 49,238 5415,324	1,820 1,487 283 515 54,116
3439571 3439573 3439575 3439577 3439599	Kerosene, gasoline, and fuel oil: Flue-connected circulators and radiant circulators with vaporizing pot-type burners..... Flue-connected radiant heaters (without casing) and trailer heaters, equipped with vaporizing pot-type burners..... Flue-connected heater equipped with sleeve burner..... Unvented portable kerosene heaters..... Domestic heating stoves, not specified by kind.....	Units..... ..do..... ..do..... ..do..... ..do.....	*197,010 45,971 245,928 ...	14,508 3,634 2,668 ...	435,420 34,527 20,901 195,622 xxx	25,512 1,550 1,312 1,950 371
34396-- 3439600	Domestic cooking stoves, ranges and appliances, complete (except electric): Reported in Census of Manufactures..... Reported on Annual Form MA34N..... Cooking stoves and ranges:	Units.....	xxx xxx	199,050 196,863	xxx xxx	195,959 (NA)
3439611 3439613 3439614	Gas: Standard ranges..... Apartment ranges..... Built-ins ⁶	Units..... ..do..... ..do.....	1,157,718 388,964 234,232	124,914 21,143 35,542	1,467,801 498,830 (NA)	144,629 26,253 (NA)
3439621 3439629	Bungalow ranges: Gas and coal..... All other.....	..do..... ..do.....	4,329 35,832	594 5,121	17,112 22,018	2,413 3,003
3439631 3439635	Coal and wood: Ranges..... Cook stoves.....	..do..... ..do.....	29,974 14,734	1,950 361	51,116 15,371	3,558 294
3439641 3439645 3439649	Combination ranges (including ranges equipped with conversion burners): Gas and oil..... Gas and coal..... All other (including ranges equipped with conversion burners).....	..do..... ..do..... ..do..... ..do.....	1,452 2,986	281 495	14,328 4,395 3,142	2,476 1,033 519
3439651 3439653	Kerosene, gasoline, and fuel oil: Kerosene ranges..... Cook stoves.....	..do..... ..do.....	(D) (D)	(D) (D)	43,211 65,999	2,766 1,574
3439615 3439655 3439658	Miscellaneous cooking appliances: Gas hot plates..... Needle-valve stoves..... Miscellaneous kerosene, gasoline, and fuel oil stoves.....	..do..... ..do..... ..do.....	51,976 749,244 ...	352 6,110 ...	22,821 437,896 xxx	235 1,821 4,750
34397-- 3439711 3439729	Domestic cooking stoves, ranges and appliances, not specified by kind..... Commercial cooking and food warming equipment, except electric (excludes industrial type ovens)..... Commercial cooking stoves, ranges, ovens, and boilers..... Other commercial cooking equipment, except electric (including griddles, toasters, deep-fat fryers, coffeurns, pressure-cookers steam, commercial, etc.).....	Units..... Units..... Units..... Units.....	xxx 55,465 xxx xxx	37,805 14,972 9,962 9,143	xxx (NA) xxx xxx	34,296 13,551 9,574 7,912
3439731 3439700	Commercial food-warming equipment, except electric (including steam tables)..... Commercial cooking and food warming equipment, not specified by kind.....	Units..... Units.....	xxx xxx	9,728 xxx	xxx xxx	3,259

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF SHIPMENTS OF HEATING AND COOKING EQUIPMENT, N.E.C., BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3439--	Heating and cooking equipment (except electric), n.e.c.--Continued					
34398--	Steel heating boilers (15 PSI and under or equivalent).....		xxx	62,488	xxx	53,160
	Steel heating boilers (15 PSI steam working pressure and under, and all hot water boilers:					
3439812	294 sq. ft. of heating surface or less.....	Units.....	81,540	31,543		
	Over 294 sq. ft. of heating surface:					
3439821	Horizontal fire box.....	Number of units...	9,571	17,570	8129,048	851,618
3439841	Other (including scotch type).....	..do.....	3,116	11,911		
3439800	Steel heating boilers, not specified by type.....		xxx	1,468	xxx	1,542
34399--	Other heating equipment, except electric.....		xxx	272,075	xxx	238,056
	Gas burners (for furnaces, boilers, water heaters, etc.):					
3439912	Residential, commercial, and industrial, sold separately (except gas conversion).....	Number of units...	(NA)	10,041	xxx	18,085
3439914	Gas conversion burners, residential, commercial, and industrial	..do.....	135,365	12,628		
3439918	Parts and attachments for gas burners, sold separately.....		...	4,405	xxx	4,329
	Floor and wall furnaces:					
3439919	Reported in Census of Manufactures.....		xxx	28,963	xxx	(NA)
	Reported on Annual Form MA34N.....	Units.....	484,552	31,269		
3439925	Oil floor furnaces.....	..do.....	15,828	1,739	45,664	4,590
3439921	Gas floor furnaces.....	..do.....	98,541	7,074	172,539	11,892
3439927	Oil wall furnaces.....	..do.....	22,411	2,411	18,312	1,793
3439923	Gas wall furnaces.....	..do.....	347,358	20,045	347,619	18,671
	Unit heaters:					
3439930	Reported in Census of Manufactures.....		xxx	46,201	xxx	864,181
	Reported on quarterly Form M35H.....		xxx	44,805	xxx	35,453
	Centrifugal fan-type (blower):					
	Steam or hot water heating elements.....		xxx	11,746		
	Gas fired.....		xxx	6,089		
	Propeller fan-type:				xxx	35,453
	Steam or hot water heating elements.....		xxx	11,391		
	Gas fired.....		xxx	15,579		
	Parts for unit heaters:					
3439935	Reported in Census of Manufactures.....		xxx	(9)	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	10,559	xxx	10,591
	Heat transfer coils:					
3439940	Reported in Census of Manufactures.....		xxx	8,075	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	8,437	xxx	6,982
	Copper or aluminum.....		xxx	8,160	xxx	6,982
	All other.....		xxx	277	xxx	
	Range boilers, expansion tanks (including basement tanks) and hot water storage tanks:					
3439952	Reported in Census of Manufactures.....		xxx	9,462	442,299	116,616
	Reported on Annual Form MA34N.....	Units.....	315,273	8,876	xxx	(NA)
	Parts for unit ventilators:					
3439958	Reported in Census of Manufactures.....		xxx	(9)	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	(10)	xxx	(10)
	Unit ventilators:					
3439960	Reported in Census of Manufactures.....		xxx	29,903	xxx	(9)
	Reported on quarterly Form M35H.....		xxx	28,879	xxx	*15,243
3439961	Tanks for water heaters (sold separately).....	Units.....	779,429	15,413	604,532	10,739
3439981	Incinerators, domestic (metal and nonportable).....	..do.....	49,077	3,564	(NA)	5,855
3439983	Parts and attachments for warm air furnaces sold separately (except registers).....		xxx	11,915	xxx	16,190
3439984	Parts and attachments for cast iron and steel heating boilers (sold separately).....		xxx	11,037	xxx	9,062
3439991	Other heating equipment, except electric (including solar heaters and circulating fireplace heaters) and parts for heating equipment except electric (sold separately).....		xxx	831,823	xxx	50,445
3439993	Other cooking equipment, except electric (including barbecuers, grills, braziers, etc., for outdoor cooking) and parts for cooking equipment, except electric (sold separately).....		xxx	29,887		
3439900	Other heating and cooking equipment, not specified by kind.....		xxx	18,758	xxx	15,608
3439000	Heating and cooking apparatus, n.e.c., not specified by kind.....		xxx	34,448		

*Revised.

NA Not available.

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

¹Includes products for SIC Industries: Heating and Cooking Equipment, N.E.C., 3439; and Oil Burners, Domestic and Industrial, 3432.²Commercial and industrial burners are those with consumption rates of 6 gallons per hour or more.³Range type oil burners 3432071 are included with oil burners, not specified by kind, 3432000 for 1954.⁴Cast iron gravity air-flow furnaces are included with steel gravity air-flow furnaces for same type of fuel.⁵1954 data for wood (sheet metal airtight type) code 343951 are included with "All other coal and wood" 3439558.⁶Quantity represents number of oven-broiler units. Value of shipments includes all surface cook units.⁷Includes portable ovens, gasoline pressure, camp stoves, cabin stoves, solar stoves, pocket stoves, etc.⁸Represent boilers of 177 square feet of heating surface and over.⁹Parts for unit heaters and unit ventilators codes 3439935 and 3439958 included with other heating equipment, except electric, and parts for other heating equipment, except electric, code 3439991 for 1958. For 1954 unit ventilators, and parts and attachments for unit heaters and ventilators are included with unit heaters, code 3439950.¹⁰Quarterly Commodity Survey M35H included parts for unit ventilators, 3439958, with parts for unit heaters 3439935.¹¹Excludes hot water storage tanks.

GROUP 35

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34C-1

METAL DOORS, SASH, AND TRIM INDUSTRY

(Industry Code 3442—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metal Doors, Sash, and Trim Industry shipped products valued at \$971 million, an increase of 43 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 25 percent from 1954 to 1958 to a total of 54.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$439 million in 1958, an increase of 28 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE METAL DOORS, SASH, AND TRIM INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3442)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	54.3	43.3	+25
Payroll.....	Million dollars...	257.0	184.2	+40
Production workers:				
Number.....	Thousands.....	39.7	33.0	+20
Man-hours.....	Millions.....	81.5	66.5	+23
Wages.....	Million dollars...	161.9	125.3	+29
Value added by manufacture, unadjusted ².....	..do.....	429.3	335.0	+28
Value added by manufacture, adjusted ³.....	..do.....	439.3	342.8	+28
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	533.2	333.8	+60
Value of shipments ⁵.....	..do.....	970.8	677.0	+43
Capital expenditures, new.....	..do.....	17.2	22.1	-22
Number of establishments with 20 or more employees ⁶	Number.....	515	386	+33

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Metal Doors, Sash, and Trim Industry includes establishments engaged primarily in the manufacture of ferrous and nonferrous metal and metal covered doors and sash, window and door frames, store fronts, molding and trim, metal storm sash and combination screen and storm sash and doors. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Metal Doors, Sash, and Trim Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metal Doors, Sash, and Trim Industry amounted to \$971 million. Of this total, \$836 million were products primary to the industry, \$74 million were products primary to other industries, and \$61 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$901 million of metal doors, sash, and trim were shipped by all producers of these products. Of this total, \$836 million, or 93 percent, were shipped by plants classified in Industry 3442, Metal Doors, Sash, and Trim, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE METAL DOORS, SASH, AND TRIM INDUSTRY (S.I.C. CODE 3442), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,341	256,970	39,688	81,546	161,855	429,274	439,315	970,809	17,212	515	43,284	334,956
New England.....	2,513	10,996	2,000	4,043	7,782	19,760	20,801	42,892	652	33	1,877	11,694
Massachusetts.....	1,250	5,098	1,001	1,954	3,737	9,067	9,842	21,314	249	16	881	5,966
Connecticut.....	674	3,333	538	1,150	2,349	6,176	6,287	11,653	164	10	424	3,044
Middle Atlantic.....	14,200	66,017	10,723	22,528	42,926	109,621	109,679	240,966	4,134	149	13,198	98,590
New York.....	7,305	34,177	5,397	11,558	22,177	59,532	59,906	119,769	1,539	90	7,638	59,946
New Jersey.....	1,751	7,388	1,334	2,926	4,975	13,415	13,391	33,769	350	20	1,345	8,840
Pennsylvania.....	5,144	24,452	3,992	8,044	15,774	36,674	36,382	87,428	2,245	39	4,215	29,802
East North Central.....	17,205	89,873	11,703	24,037	54,232	141,681	145,514	311,026	4,619	136	16,891	146,692
Ohio.....	5,288	27,220	3,660	7,109	17,179	38,359	42,472	89,548	1,430	31	5,697	53,530
Indiana.....	1,619	7,964	1,099	2,439	4,810	12,445	12,229	26,925	383	15	1,835	12,860
Illinois.....	3,804	19,230	2,777	5,835	12,463	35,888	36,645	77,119	1,081	36	2,904	26,522
Michigan.....	5,734	32,396	3,642	7,621	17,879	50,544	49,783	107,851	1,504	48	5,961	50,636
Wisconsin.....	760	3,063	525	1,033	1,901	4,445	4,385	9,583	221	6	492	3,142
West North Central.....	3,175	15,090	2,322	4,580	9,482	26,874	26,514	57,454	918	24	1,822	12,066
Minnesota.....	440	1,973	334	680	1,252	3,220	3,282	6,937	120	4	241	1,692
Iowa.....	371	1,597	284	569	936	4,685	4,302	10,692	202	3	61	348
Missouri.....	2,006	9,928	1,500	2,926	6,603	16,004	15,828	32,388	374	12	1,303	8,778
Kansas.....	283	1,329	142	268	484	2,564	2,685	6,218	192	5	171	1,062
South Atlantic.....	6,777	25,710	4,933	9,815	15,537	46,092	47,342	127,533	2,670	55	3,858	25,355
Virginia.....	588	2,302	379	827	1,437	3,532	3,632	8,167	204	6	437	2,396
Georgia.....	1,233	5,039	962	2,063	3,268	10,084	10,167	23,784	689	4	750	4,818
Florida.....	4,428	16,265	3,194	6,128	9,546	28,805	29,797	86,447	1,714	38	2,159	15,327
East South Central.....	2,217	8,941	1,811	3,875	6,298	17,903	17,904	37,242	533	19	913	6,913
Kentucky.....	731	3,389	521	1,010	1,992	8,632	8,614	16,688	71	6	365	3,327
Alabama.....	822	3,161	760	1,716	2,736	6,116	6,110	10,623	171	4	398	2,799
West South Central.....	2,447	9,183	1,984	3,969	6,394	14,910	16,334	39,628	1,410	30	985	6,456
Louisiana.....	451	1,854	356	798	1,291	4,192	4,254	7,513	313	2	166	753
Texas.....	1,786	6,510	1,447	2,804	4,515	9,472	10,801	29,113	921	25	777	5,496
Mountain.....	579	3,224	386	858	1,771	5,168	5,377	10,216	199	6	540	3,389
Pacific.....	5,228	27,936	3,826	7,841	17,433	47,265	49,850	103,852	2,077	63	3,196	23,797
Washington.....	853	4,757	665	1,264	3,114	7,939	8,624	14,620	263	8	609	4,288
Oregon.....	322	1,653	254	528	1,187	2,526	2,501	4,559	88	4	231	1,216
California.....	4,053	21,526	2,907	6,049	13,132	36,800	38,725	84,673	1,726	51	2,354	18,293

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF METAL DOORS, SASH, AND TRIM SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Metal Doors, Sash, and Trim Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3442--	Metal doors, sash, and trim, total.....	xxx	901,193	xxx	609,093
34421--	Metal doors and frames.....	xxx	191,812	xxx	149,836
	Metal doors, excluding combination screen and storm:				
	Industrial:				
3442112	Overhead:				
	Quantity reported.....	34,825	8,938		
	Quantity not reported.....	xxx	2,470		
3442117	All other:				
	Quantity reported.....	248,709	17,621		
	Quantity not reported.....	xxx	6,054		
	Residual:				
	Garage:				
3442122	Iron and steel.....	291,684	11,509		
3442123	Nonferrous.....	(NA)	6,083	xxx	106,574
3442127	All other:				
	Quantity reported.....	474,288	18,062		
	Quantity not reported.....	xxx	3,354		
	Commercial and institutional:				
3442132	Iron and steel:				
	Quantity reported.....	508,240	33,510		
	Quantity not reported.....	xxx	6,627		
3442137	Nonferrous.....	201,520	24,205		
3442141	Metal door frames (including trim sold as integral part of door frame):				
	Quantity reported.....	1,989,495	32,358	1,483,827	25,392
	Quantity not reported.....	xxx	4,085	xxx	4,157
3442100	Metal doors and door frames, not specified by type.....	xxx	16,936	xxx	13,713
34422--	Metal window sash and frames.....	xxx	296,264	xxx	206,224
	Window sash and frame (excluding combination screen and storm sash)				
3442211	Iron and steel:				
	Quantity reported.....	4,209,056	66,030	6,439,400	86,234
	Quantity not reported.....	xxx	27,298	...	...
3442251	Nonferrous metal:				
	Quantity reported.....	7,673,088	155,320	4,718,406	94,406
	Quantity not reported.....	xxx	27,776	xxx	16,337
3442200	Metal window sash and frames, not specified by type.....	xxx	19,840	xxx	9,247
34423--	Metal molding and trim, and store fronts.....	xxx	98,406	xxx	68,131
3442311	Metal molding and trim.....	xxx	79,293	xxx	53,310
3442351	Metal store fronts, sold complete at factory.....	xxx	12,719	xxx	11,853
3442300	Metal molding and trim, and store fronts, not specified by type.....	xxx	6,394	xxx	2,968
34424--	Metal storm sash and combination screen and storm sash and doors..	xxx	232,444	xxx	169,794
3442411	Metal storm sash.....	(NA)	7,385	xxx	12,757
3442431	Metal combination screen and storm sash:				
	Quantity reported.....	10,657,710	123,347	6,164,104	75,220
	Quantity not reported.....	xxx	xxx	xxx	10,580
3442451	Metal combination screen and storm doors:				
	Quantity reported.....	2,736,065	62,050	1,587,553	40,196
	Quantity not reported.....	xxx	xxx	xxx	6,894
3442400	Metal storm sash, combination screen and storm sash and doors, and parts, not specified by type.....	xxx	39,662	xxx	24,147
3442000	Metal doors, sash, frames, molding, and trim, not specified by type.....	xxx	82,267	xxx	15,108

NA Not available.
xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34C-2

SHEET-METAL WORK INDUSTRY

(Industry Code 3444--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Sheet-Metal Work Industry shipped products valued at \$1,076 million, an increase of 32 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures Conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 16 percent from 1954 to 1958 to a total of 58.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$515 million in 1958, an increase of 31 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SHEET-METAL WORK INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3444)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	58.4	50.2	+16
Payroll.....	Million dollars...	307.6	227.3	+35
Production workers:				
Number.....	Thousands.....	44.2	38.6	+15
Man-hours.....	Millions.....	87.5	77.6	+13
Wages.....	Million dollars...	210.1	156.0	+35
Value added by manufacture, unadjusted ².....	.....do.....	491.3	380.3	+29
Value added by manufacture, adjusted ³.....	.....do.....	514.9	393.6	+31
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	568.9	416.2	+37
Value of shipments ⁵.....	.....do.....	1,076.1	812.2	+32
Capital expenditures, new.....	.....do.....	23.3	18.8	+24
Number of establishments with 20 or more employees ⁶	Number.....	696	550	+27

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 35

The Sheet-Metal Work Industry includes establishments engaged primarily in the manufacture of cornices, ventilators, skylights, gutters, and other types of sheet-metal work for buildings, and in the manufacture of sheet-metal stovepipes, light tanks, bins, furnace casings, etc. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Sheet-Metal work Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Sheet-Metal Work Industry amounted to \$1,076 million. Of this total, \$833 million were products primary to the industry, \$108 million were products primary to other industries, and \$135 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 81 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,004 million of Sheet-Metal Work were shipped by all producers of these products. Of this total, \$833 million, or 83 percent, were shipped by plants classified in Industry 3444, Sheet-Metal Work, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SHEET-METAL WORK INDUSTRY (S.I.C. CODE 3444) BY REGIONS AND STATES: 1954 AND 1958

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	58,404	307,589	44,233	87,455	210,086	491,305	514,887	1,076,058	20,305	696	50,190	380,327
New England.....	3,568	18,294	2,832	5,564	13,086	27,359	28,115	51,844	928	49	2,407	14,771
Massachusetts.....	2,507	15,036	1,982	3,870	9,176	19,598	20,411	22,307	699	34	1,608	9,624
Connecticut.....	703	3,498	556	1,100	2,670	5,050	4,952	3,665	110	11	469	3,130
Middle Atlantic.....	13,289	72,195	10,340	20,457	51,396	108,233	111,913	211,132	4,269	174	12,669	98,574
New York.....	5,436	29,649	4,477	8,770	22,489	43,188	44,705	74,391	1,950	76	4,875	35,142
New Jersey.....	2,555	14,477	2,087	4,228	10,794	20,528	21,101	37,098	743	42	2,637	19,923
Pennsylvania.....	5,298	28,069	3,776	7,459	18,113	44,517	46,109	99,643	1,596	56	5,157	43,508
East North Central.....	15,595	84,428	11,581	23,252	55,801	141,654	150,501	332,665	7,675	169	15,963	132,831
Ohio.....	5,805	32,133	4,282	8,396	21,233	55,523	59,021	134,301	3,685	56	5,989	49,180
Indiana.....	1,150	6,306	787	1,627	3,669	8,484	10,232	26,592	980	17	1,321	8,388
Illinois.....	3,255	17,397	2,608	5,161	12,459	25,488	27,374	56,213	1,037	45	3,861	37,742
Michigan.....	2,827	14,879	2,115	4,372	10,042	28,574	28,989	55,384	992	33	2,374	18,248
Wisconsin.....	2,556	13,713	1,789	3,696	8,398	23,585	24,885	60,175	981	18	2,416	19,272
West North Central.....	7,806	40,811	5,630	11,251	25,718	62,070	64,524	145,874	3,088	65	4,697	33,376
Minnesota.....	1,081	5,977	825	1,657	3,805	9,044	9,220	21,190	238	17	786	6,243
Iowa.....	859	4,479	711	1,427	3,386	7,335	8,853	18,557	523	8	596	5,362
Missouri.....	4,176	22,324	2,906	5,654	13,475	28,716	29,423	68,751	1,538	23	2,423	15,507
Kansas.....	465	2,243	272	539	1,123	2,850	3,149	10,343	160	7	325	2,022
South Atlantic.....	5,491	24,480	4,078	7,636	15,906	38,136	40,997	98,036	1,957	74	4,338	26,532
Maryland.....	915	4,822	604	1,112	2,576	7,120	8,104	20,169	219	10	942	5,816
Virginia.....	532	2,247	447	893	1,682	3,730	3,819	7,881	147	11	337	2,041
West Virginia.....	454	2,217	366	645	1,765	3,121	3,062	8,215	35	2	976	5,786
Georgia.....	1,020	4,628	600	1,173	2,365	6,400	7,411	21,532	592	12	659	3,208
Florida.....	1,583	6,911	1,293	2,464	4,940	11,203	11,570	24,462	533	25	947	5,907
East South Central.....	1,558	6,640	1,173	2,114	4,630	11,555	13,374	27,628	424	23	1,457	10,208
Kentucky.....	574	2,823	394	690	1,836	3,552	3,832	9,271	65	10	481	3,915
Alabama.....	378	1,368	301	541	1,066	2,756	2,796	5,832	106	3	472	2,645
West South Central.....	2,948	12,866	2,313	4,317	9,183	20,176	20,536	44,041	1,442	33	2,376	15,248
Louisiana.....	350	1,349	288	497	987	2,499	2,543	5,148	100	2	367	2,445
Texas.....	2,056	9,333	1,606	3,022	6,607	14,125	14,331	30,615	968	23	1,553	9,890
Mountain.....	1,126	6,352	908	1,965	4,775	9,553	10,148	24,765	731	15	1,185	7,408
Colorado.....	285	1,755	240	510	1,343	2,564	2,563	4,518	114	2	492	2,780
Utah.....	236	1,329	180	360	921	2,052	2,166	4,834	48	4	228	1,817
Pacific.....	7,025	41,523	5,378	10,899	29,591	72,569	74,779	140,073	2,794	94	5,095	41,325
Washington.....	772	4,958	603	1,234	3,773	6,923	7,504	15,362	268	8	507	3,556
Oregon.....	859	5,118	645	1,198	3,687	7,562	7,940	18,123	214	11	455	3,988
California.....	5,394	31,447	4,110	8,467	22,131	58,084	59,335	106,588	2,312	75	4,133	33,779

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SHEET-METAL WORK SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Sheet-Metal Work Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3444---	Sheet-metal work, total.....	xxx	1,004,387	xxx	727,620
	Roofing:				
3444011	Steel, all types.....	292,138	69,081	345,955	59,771
3444013	Aluminum, all types.....	(NA)	18,587	25,122	18,468
3444015	Other metals, all types.....	xxx	1,462	xxx	544
	Metal siding:				
3444016	Steel.....	(NA)	7,775	7,916	5,998
3444017	Aluminum.....	(NA)	52,279	22,481	19,720
3444019	Other metals.....	xxx	225	xxx	168
	Roof drainage equipment (including eave troughs, etc.)				
3444023	Steel:				
	Quantity reported.....	67,601	21,647	58,490	18,093
	Quantity not reported.....	xxx	4,855	xxx	4,437
3444027	Copper:				
	Quantity reported.....	2,187	3,295	xxx	xxx
	Quantity not reported.....	xxx	680	xxx	3,059
3444029	Aluminum.....	xxx	5,666	xxx	2,699
3444031	Cornices and skylights.....	xxx	4,028	xxx	4,868
3444035	Roof ventilators.....	xxx	20,420	xxx	14,420
3444041	Furnace smoke pipe elbows, ducts and fittings.....	xxx	60,043	xxx	37,656
3444045	Stove pipes and elbows.....	xxx	5,623	xxx	7,146
3444053	Culverts, flumes, irrigation pipes, and similar products.....	xxx	126,576	xxx	94,061
	Bins and vats:				
3444062	Grain.....	xxx	24,786	xxx	42,753
3444064	Other.....	xxx	5,950	xxx	xxx
3444065	Restaurant, hotel, and kitchen sheet metal equipment such as table tops, drainboard tops, etc.....	xxx	42,996	xxx	35,667
3444071	Metal awnings and canopies (including assembled or unassembled prefabricated types).....	xxx	35,759	xxx	34,433
3444081	Air-conditioning ducts, including dust collector ducts (include ventilating).....	xxx	80,535	xxx	59,901
3444085	Metal car parts and patio roofs (including assembled and unassembled prefabricated types).....	xxx	2,430	xxx	171,981
3444098	Other sheet-metal work.....	xxx	201,639	xxx	xxx
3444000	Sheet-metal work, not specified by kind.....	xxx	208,070	xxx	91,777

NA Not available.

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34C-3

BOILER SHOP PRODUCTS INDUSTRY

(Industry Code 3443--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Boiler Shop Products Industry shipped products valued at \$1,497 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 9 percent from 1954 to 1958 to a total of 81.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$682 million in 1958, an increase of 20 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table I.--GENERAL STATISTICS FOR THE BOILER SHOP PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3443)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	81.3	74.4	+9
Payroll.....	Million dollars...	441.9	342.1	+29
Production workers:				
Number.....	Thousands.....	58.8	57.2	+3
Man-hours.....	Millions.....	116.7	116.0	+1
Wages.....	Million dollars...	291.7	240.0	+22
Value added by manufacture, unadjusted ².....	..do.....	702.9	578.6	+21
Value added by manufacture, adjusted ³.....	..do.....	682.4	568.1	+20
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	786.1	600.7	+31
Value of shipments ⁵.....	..do.....	1,497.2	1,188.1	+26
Capital expenditures, new.....	..do.....	44.6	23.6	+89
Number of establishments with 20 or more employees ⁶	Number.....	515	481	+7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Include value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Boiler Shop Products Industry includes establishments engaged primarily in the manufacture of industrial, power, and marine boilers, smokestacks, heavy tanks, gas cylinders, and other boiler shop products; and fabricated platework which involves the cutting, punching, bending and shaping of steel plates for other industries, or for assembly on the job. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Boiler Shop Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Boiler Shop Products Industry amounted to \$1,497 million. Of this total, \$1,208 million were products primary to the industry, \$161 million were products primary to other industries, and \$128 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total

manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,413 million of Boiler Shop Products were shipped by all producers of these products. Of this total, \$1,208 million, or 85 percent, were shipped by plants classified in Industry 3443, Boiler Shop Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.--GENERAL STATISTICS FOR THE BOILER SHOP PRODUCTS INDUSTRY (3443) BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	81,323	441,870	58,839	116,658	291,729	702,893	682,397	1,497,239	42,913	515	73,373	578,568
New England.....	2,545	14,174	1,799	3,645	8,309	18,877	21,667	40,297	3,485	23	2,292	15,024
Massachusetts.....	1,608	8,338	1,149	2,227	5,020	11,191	12,652	23,373	(D)	18	1,324	9,077
Connecticut.....	694	4,560	460	1,014	2,382	6,008	7,354	12,523	(D)	3	208	1,272
Middle Atlantic.....	20,620	112,988	15,350	30,102	78,129	187,189	180,791	371,886	7,152	113	18,901	148,765
New York.....	4,588	25,002	3,359	7,116	16,755	44,142	43,070	86,548	2,314	31	5,455	48,123
New Jersey.....	1,423	8,296	1,077	2,301	5,648	13,716	13,272	27,443	430	17	2,148	13,601
Pennsylvania.....	14,249	79,690	10,914	20,685	55,726	129,331	124,449	257,895	4,408	65	11,297	87,040
East North Central.....	19,866	112,844	13,326	27,118	69,362	182,477	177,613	390,132	14,967	130	20,178	167,302
Ohio.....	8,982	51,435	5,664	11,742	29,446	87,287	82,399	179,656	8,778	39	8,002	69,195
Indiana.....	3,203	18,733	2,070	4,175	11,427	33,075	34,429	70,656	1,785	11	3,049	22,086
Illinois.....	3,442	20,475	2,470	4,865	12,541	28,427	27,695	63,572	1,252	40	3,186	27,700
Michigan.....	1,543	8,630	1,143	2,448	5,668	12,632	12,666	31,203	421	20	2,475	19,781
Wisconsin.....	2,696	13,571	1,979	3,888	10,280	21,056	20,424	45,045	2,731	20	3,466	28,538
West North Central.....	4,649	23,886	3,440	6,736	16,825	36,319	35,790	80,606	2,374	31	3,414	25,743
Minnesota.....	596	3,172	483	956	2,255	4,825	5,211	9,675	100	6	440	2,772
Iowa.....	307	1,397	240	454	947	2,523	2,442	6,988	134	5	225	1,336
Missouri.....	3,039	15,475	2,169	4,401	10,717	23,554	22,716	52,675	1,973	13	1,904	17,082
Kansas.....	609	3,388	473	791	2,582	4,543	4,450	8,829	101	5	770	4,115
South Atlantic.....	4,862	23,943	3,377	6,952	15,197	33,794	31,643	77,490	1,678	44	3,906	24,586
Maryland.....	519	2,484	382	737	1,568	3,570	3,620	8,208	88	8	541	3,678
Virginia.....	1,442	8,006	627	1,427	3,164	6,703	6,741	14,599	858	6	570	2,800
North Carolina.....	996	4,316	845	1,687	3,544	7,459	6,602	19,438	102	8	1,001	8,096
Georgia.....	982	4,425	850	1,705	3,667	7,068	6,277	13,965	72	9	1,310	7,454
Florida.....	302	1,392	238	467	1,001	2,546	2,544	6,078	244	7	174	920
East South Central.....	8,599	42,603	6,685	13,035	31,566	64,952	62,508	137,822	1,755	27	7,040	48,867
Kentucky.....	625	2,892	470	958	1,925	3,685	3,766	8,860	186	7	379	2,697
Tennessee.....	5,732	28,667	4,211	8,102	20,084	41,311	38,902	82,427	452	7	4,769	30,277
Alabama.....	1,201	7,281	1,059	2,232	6,302	10,646	10,715	28,916	543	9	1,208	11,846
Mississippi.....	1,041	3,763	945	1,763	3,255	9,310	9,125	17,619	574	4	682	4,045
West South Central.....	7,916	38,601	5,639	11,769	24,265	64,754	61,323	157,098	3,408	61	8,090	64,830
Louisiana.....	1,541	7,994	1,092	2,315	4,692	9,605	9,511	27,014	510	7	1,067	7,080
Oklahoma.....	1,761	9,255	1,027	2,191	4,527	18,795	18,739	37,886	638	8	3,110	26,645
Texas.....	4,496	20,847	3,432	7,067	14,749	35,595	32,280	90,253	2,217	43	3,799	30,446
Mountain.....	2,355	11,601	1,708	3,387	8,035	15,791	16,122	48,100	2,124	20	1,375	11,797
Utah.....	1,153	5,784	920	1,857	4,485	7,163	7,219	23,560	1,272	7	824	8,525
Pacific.....	10,271	61,230	7,515	13,914	40,041	98,740	94,940	193,808	5,970	66	9,174	71,651
Washington.....	573	3,486	459	879	2,622	4,845	4,702	10,345	192	10	633	5,436
Oregon.....	453	2,682	348	790	1,914	3,120	3,049	11,666	334	5	1,492	8,839
California.....	9,245	55,062	6,708	12,245	35,505	90,775	87,189	171,797	5,444	51	7,048	57,375

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF BOILER SHOP PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Boiler Shop Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3443---	Boiler shop products, total.....	.....	xxx	1,413,400	xxx	1,089,948
34431	Metal tanks.....	.....	xxx	554,123	xxx	500,073
	Tanks complete at factory (standard line, pressure and nonpressure):					
	Nonpressure tanks:					
	Bulk storage (including above ground, underground and inside storage tanks):					
	Carbon steel:					
3443111	6,000 gallon or less capacity:					
	Quantity reported.....	Number.....	201,369	44,396	197,561	28,609
	Quantity not reported.....	.....	...	...	xxx	6,609
3443113	Over 6,000 gallon capacity:					
	Quantity reported.....	Number.....	21,417	20,880	17,670	17,717
	Quantity not reported.....	.....	...	...	xxx	6,565
3443115	Alloy and stainless steel, nickel, aluminum, etc.:					
	Quantity reported.....	Number.....	4,207	7,607	3,049	4,248
	Quantity not reported.....	.....	xxx	...	xxx	908
3443121	Basement oil storage tanks:					
	Quantity reported.....	Number.....	250,873	6,144	386,050	10,089
	Quantity not reported.....	.....	xxx	924	...	...
3443125	Oilfield, bolted.....	Number.....	5,289	10,553	10,110	15,774
3443127	Farm storage tanks, with or without supports.....	..do.....	(NA)	11,191	122,429	10,870
3443129	Other nonpressure tanks, except septic tanks.....	.....	xxx	14,202	xxx	25,168
	Pressure tanks:					
3443133	Liquefied petroleum gas tanks (under 3,000 gallon capacity).	Number.....	178,111	31,933	203,378	30,823
3443135	Air receivers:					
	Quantity reported.....	Number.....	84,320	5,641	84,417	4,004
	Quantity not reported.....	.....	xxx	734	xxx	863
3443138	Other pressure tanks, including anhydrous ammonia (under 3,000 gallon capacity).....	.....	xxx	14,391	xxx	38,572
	Truck tanks (for delivery of fluids; excluding trailer tanks, and fuel supply tanks for motor vehicles (gas tanks):					
3443141	For butane and propane.....	Number.....	(NA)	3,891	(NA)	4,580
3443143	For liquid fuels, except butane and propane.....	..do.....	3,353	9,281	(NA)	11,283
3443145	For other fluids.....	..do.....	(NA)	8,233	(NA)	3,806
	Tanks and vessels, custom fabricated at the factory:					
	Pressure vessels and tanks (1/4" and over and over 24" outside diameter and not less than 5 cu. ft. capacity) including process vessels, tanks and kettles for refineries, chemical plants, paper mills and other processing industries:					
3443151	Carbon steel.....	Short ton.....	151,045	91,386	172,717	77,269
3443153	Alloy and stainless steel, nickel, aluminum, etc.....	..do.....	18,418	27,309	14,758	21,751
3443155	Liquefied petroleum gas tanks, 3,000 gallon capacity and over.....	..do.....	16,288	9,023	26,477	6,275
3443158	All other tanks, and vessels, custom fabricated at the factory (including anhydrous ammonia tanks, 3,000 gallon capacity and over).....	.....	xxx	21,131	xxx	12,725
	Tanks and vessels, custom fabricated and field erected:					
	Bulk storage tanks:					
3443171	Water, including elevated.....	Short ton.....	(NA)	42,610	108,355	27,056
3443172	Petroleum and petroleum products.....	..do.....	242,566	61,093	394,211	70,392
3443173	Other.....	..do.....	(NA)	22,495	(NA)	9,833
3443175	Gas holders.....	..do.....	(NA)	22,495	(NA)	1,793
	Pressure vessels and tanks, including process vessels, tanks and kettles for refineries, chemical plants, paper mills and other processing industries:					
3443177	Carbon steel:					
	Quantity reported.....	Short ton.....	(NA)	17,891	78,232	31,073
	Quantity not reported.....	.....	(NA)	...	xxx	2,566
3443179	Alloy and stainless steel, nickel, aluminum, etc.:					
	Quantity reported.....	Short ton.....	(NA)	17,891	3,323	5,036
	Quantity not reported.....	.....	(NA)	...	xxx	3,097
3443100	Metal tanks, not specified by type.....	.....	xxx	71,620	xxx	20,719
34432--	Fabricated steel plate.....	.....	xxx	258,245	xxx	174,561
	Fabricated steel plate (factory assembled or formed and prepared for field erection):					
3443211	For large diameter pipe (over 36" diameter for pipe lines, penstocks, tunnel linings, etc.).....	Short ton.....	127,466	41,164	141,265	42,515
3443298	Fabricated steel plate for other purposes.....	.....	xxx	187,159	xxx	125,270
3443200	Fabricated steel plate, not specified by type.....	.....	xxx	29,922	xxx	6,776

Table 3.--QUANTITY AND VALUE OF BOILER SHOP PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3443--	Boiler shop products--Continued					
34433--	Steel power boilers, parts, and attachments.....	.....	xxx	407,100	xxx	264,831
3443312	Water tube boilers.....	Number.....	2,090	276,234	13,637	224,240
3443332	Fire tube boilers.....	..do.....	5,290	17,481		
3443352	Parts and attachments for steel power boilers (sold separately).....	.....	xxx	112,885	xxx	40,591
34434--	Gas cylinders, smoke stacks, and other steel plate boiler shop products.....	.....	xxx	124,735	xxx	136,161
	Gas cylinders:					
3443411	For liquefied petroleum gas.....	Number.....	(NA)	5,560	999,880	15,633
3443419	Other gas cylinders.....	..do.....	1,059,246	23,836	993,638	13,940
3443431	Stacks (smoke or other).....	Short ton.....	(NA)	5,257	(NA)	5,880
3443451	Weldments.....	..do.....	87,575	40,878	115,712	41,792
3443498	Other steel plate products.....	.....	xxx	37,326	xxx	58,916
3443400	Gas cylinders, and other boiler shop products, not specified by kind.....	.....	xxx	11,878	...	...
3443000	Boiler shop products, not specified by type.....	.....	xxx	69,197	xxx	14,322

Note: For certain products value figures only were reported by some establishments. In those instances where such values amounted to less than 10 percent of the total value of the product, an estimated quantity figure has been included in the quantity shown for the product.

NA Not Available.

xxx Not applicable.

¹For 1954, figures represent only anhydrous ammonia tanks of 3,000 gallon capacity and over.

GROUP 35



GROUP 35

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

—
OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34C-4

STRUCTURAL AND ORNAMENTAL WORK INDUSTRY

(Industry Code 3441--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Structural and Ornamental Work Industry shipped products valued at \$2,873 million, an increase of 46 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 18 percent from 1954 to 1958 to a total of 137.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$1,250 million in 1958, an increase of 34 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE STRUCTURAL AND ORNAMENTAL WORK INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3441)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	137.2	116.3	+18
Payroll.....	Million dollars...	748.6	527.4	+42
Production workers:				
Number.....	Thousands.....	102.0	88.1	+16
Man-hours.....	Millions.....	205.9	179.9	+14
Wages.....	Million dollars...	491.5	352.7	+39
Value added by manufacture, unadjusted ².....	...do.....	1,264.4	909.8	+39
Value added by manufacture, adjusted ³.....	...do.....	1,250.0	930.5	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	1,561.3	1,024.1	+52
Value of shipments ⁵.....	...do.....	2,873.1	1,973.7	+46
Capital expenditures, new.....	...do.....	55.1	37.8	+46
Number of establishments with 20 or more employees ⁶	Number.....	1,175	969	+21

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Structural and Ornamental Work Industry includes establishments engaged primarily in the manufacture of fabricated iron and steel or other metal for structural purposes, and architectural ornamental work of ferrous and nonferrous metals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Structural and Ornamental Work Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Structural and Ornamental Work Industry amounted to \$2,873 million. Of this total, \$2,255 million were products primary to the industry, \$297 million were products primary to other industries, and \$321 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$2,544 million of structural and ornamental work were shipped by all producers of these products. Of this total, \$2,255 million, or 89 percent, were shipped by plants classified in Industry 3441, Structural and Ornamental Work, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE STRUCTURAL AND ORNAMENTAL WORK INDUSTRY (S.I.C. CODE 3441) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	137,248	748,618	101,981	205,882	491,529	1,264,437	1,250,041	2,873,134	55,091	1,175	116,274	909,782
New England.....	4,664	26,349	3,282	6,952	15,378	41,164	42,191	93,566	2,030	44	3,180	23,811
Massachusetts.....	2,523	14,090	1,781	3,642	8,100	21,675	22,307	46,373	910	24	1,997	14,617
Rhode Island.....	413	2,235	278	606	1,317	3,319	3,282	7,992	86	5	381	2,825
Connecticut.....	1,253	7,057	899	1,928	4,294	11,261	11,419	24,277	710	10	226	2,355
Middle Atlantic.....	38,866	220,561	29,923	58,376	154,032	391,479	370,650	777,924	15,019	260	33,713	299,735
New York.....	10,200	61,449	7,819	15,862	42,526	102,851	101,216	194,055	4,449	110	9,268	79,044
New Jersey.....	4,599	25,685	3,316	6,501	16,644	56,615	54,883	112,806	1,916	42	4,667	52,082
Pennsylvania.....	24,267	133,427	18,788	36,013	94,862	232,013	214,551	471,063	8,654	108	19,777	168,609
East North Central.....	33,039	188,930	23,961	49,272	120,281	324,356	315,012	725,844	10,984	268	29,448	241,794
Ohio.....	8,402	46,704	6,313	13,196	30,983	77,622	78,468	186,076	2,714	75	9,533	74,639
Indiana.....	5,810	32,122	4,358	8,786	21,504	54,591	45,065	131,122	1,354	26	5,028	46,284
Illinois.....	10,474	60,448	7,666	15,600	38,570	112,591	113,271	237,363	4,154	89	6,564	57,181
Michigan.....	5,586	33,476	3,772	7,729	19,814	54,100	52,564	118,134	1,902	51	6,294	50,058
Wisconsin.....	2,767	16,180	1,852	3,961	9,410	25,452	25,644	53,149	860	27	2,028	13,631
West North Central.....	9,272	50,427	6,911	14,447	31,907	87,282	93,299	218,690	4,150	93	9,301	73,364
Minnesota.....	2,656	14,900	2,019	4,279	9,897	22,695	25,983	55,723	1,198	22	1,868	15,433
Iowa.....	1,225	6,137	959	1,946	4,194	14,080	12,198	33,980	713	15	1,449	13,588
Missouri.....	2,202	12,406	1,610	3,417	7,814	23,848	24,926	51,627	877	25	2,903	24,300
Nebraska.....	1,389	7,554	1,044	2,189	4,405	10,585	13,839	34,178	836	9	1,258	8,351
Kansas.....	1,435	7,559	1,025	2,077	4,526	13,516	13,219	33,143	331	17	1,331	8,098
South Atlantic.....	13,316	63,882	9,750	19,505	39,196	100,215	103,650	270,102	5,647	148	9,321	61,000
Maryland.....	2,180	11,005	1,435	2,844	6,136	17,245	19,335	45,950	824	25	1,530	12,105
Virginia.....	2,991	15,126	2,253	4,367	9,460	24,785	19,968	53,886	1,047	23	2,922	16,417
West Virginia.....	1,432	7,423	1,071	2,128	4,894	11,370	12,425	30,892	559	10	579	4,230
North Carolina.....	1,288	6,687	844	1,807	3,639	9,541	10,086	30,296	452	16	1,276	9,412
South Carolina.....	1,211	5,060	878	1,820	3,014	11,097	12,334	29,432	717	13	558	3,804
Georgia.....	1,080	4,399	827	1,567	2,776	5,771	5,627	17,311	194	18	709	3,778
Florida.....	2,758	12,157	2,173	4,459	8,138	17,644	20,547	55,622	1,800	35	1,428	9,014
East South Central.....	7,713	37,762	5,793	11,629	24,607	61,780	61,293	151,558	3,175	68	6,926	52,699
Kentucky.....	1,165	6,082	854	1,743	3,978	10,100	8,936	19,436	261	10	513	4,147
Tennessee.....	2,017	9,170	1,523	3,054	6,122	14,365	14,011	34,920	633	21	2,246	14,615
Alabama.....	4,127	20,818	3,122	6,192	13,535	34,478	35,367	88,239	2,188	29	3,879	31,693
Mississippi.....	404	1,692	294	638	972	2,837	2,979	8,963	93	8	288	2,245
West South Central.....	12,111	56,722	8,919	18,593	35,073	87,866	93,367	247,591	6,831	103	10,585	62,654
Arkansas.....	450	2,109	343	661	1,415	3,611	3,775	10,918	533	4	419	2,501
Louisiana.....	1,557	6,524	1,051	2,099	4,456	9,102	10,778	27,309	194	16	1,258	6,618
Oklahoma.....	2,605	13,400	1,804	3,735	7,429	21,293	22,457	58,421	3,324	16	2,409	15,708
Texas.....	7,699	34,689	5,721	12,098	21,773	53,860	56,357	150,943	2,780	67	6,498	37,826
Mountain.....	3,869	19,702	2,907	6,150	13,933	28,672	31,576	81,628	1,900	49	2,457	15,038
Idaho.....	284	1,549	179	395	877	1,380	1,888	6,094	111	2	287	921
Colorado.....	1,216	6,461	965	2,140	4,709	9,711	11,799	26,514	485	18	791	5,945
Arizona.....	1,084	5,550	813	1,819	4,314	7,887	7,644	19,409	395	9	586	2,561
Utah.....	882	4,606	625	1,277	2,977	7,412	7,527	22,256	666	14	606	4,671
Pacific.....	14,398	84,283	10,535	20,958	57,122	141,623	139,003	306,231	5,355	142	11,339	79,683
Washington.....	1,780	9,964	1,364	2,644	7,069	15,987	15,882	33,264	569	19	1,121	9,435
Oregon.....	1,325	6,256	993	1,787	3,976	10,798	13,505	27,430	434	16	1,606	9,783
California.....	11,293	68,063	8,178	16,527	46,077	114,838	109,616	245,537	4,352	107	8,611	60,465

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF STRUCTURAL AND ORNAMENTAL WORK SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Structural and Ornamental Work Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3441--	Structural and ornamental work, total.....		xxx	2,543,870	xxx	1,745,938
34411--	Fabricated structural iron and steel ¹		xxx	1,469,738	xxx	1,077,990
	For sale to other companies:					
	For bridges:					
3441111	Highway.....	Short tons.....	659,091	217,032	629,528	165,208
3441115	Railway.....	do.....	54,225	18,978	38,436	9,446
	For buildings:					
3441121	Industrial.....	do.....	899,184	268,815	1,237,319	292,951
3441125	Commercial, residential, and institutional.....	do.....	1,018,249	263,524	775,421	178,200
3441127	Public utilities:					
	Quantity reported.....	do.....	170,580	56,131	191,964	47,177
	Quantity not reported.....		xxx	16,632	...	...
3441131	For ships, boats, and barges:					
	Quantity reported.....	Short tons.....	42,099	20,684	39,818	15,055
	Quantity not reported.....		xxx	4,288	...	...
3441141	For transmission towers, substations, and other galvanized structures:					
	Quantity reported.....	Short tons.....	144,025	53,897	157,202	46,369
	Quantity not reported.....		xxx	6,051	...	...
3441149	For other structures:					
	Quantity reported.....	Short tons.....	294,773	103,603	295,030	78,907
	Quantity not reported.....		xxx	18,443	xxx	12,017
	For installation by your company on the site of construction or shipbuilding:					
3441152	For bridges (highway and railway).....	Short tons.....	130,195	41,463	107,763	24,661
	For buildings:					
3441161	Industrial.....	do.....	280,203	100,327	296,016	75,511
3441165	Commercial, residential, and industrial.....	do.....	319,890	103,653	188,028	43,227
3441167	Public utilities.....	do.....	37,441	16,998	32,776	10,775
3441171	For ships, boats, and barges.....		xxx	27,712	xxx	28,846
3441181	For transmission towers, substations, and galvanized structures.....		(NA)	2,628	(NA)	4,426
3441189	For other structures:					
	Quantity reported.....	Short tons.....	64,366	36,495	xxx	30,197
	Quantity not reported.....		xxx	7,638		
3441100	Other fabricated structural iron and steel, not reported by end use.....		xxx	104,746	xxx	35,017
34412--	Ornamental and structural metal work ¹		xxx	346,024	xxx	272,337
	Iron and steel:					
3441211	Grille work:					
	Quantity reported.....	Short tons.....	...	...	39,078	14,523
	Quantity not reported.....		xxx	8,754	xxx	4,652
3441213	Fences and gates, other than wire.....	Short tons.....	xxx	9,634	xxx	7,404
3441215	Stairs, staircases, fire escapes, and railings:					
	Quantity reported.....	Short tons.....	96,723	51,895	123,053	41,415
	Quantity not reported.....		xxx	12,100	xxx	15,523
3441217	Open steel flooring (grating-welded, riveted and pressure locked):					
	Quantity reported.....	Short tons.....	106,508	29,740	88,590	28,674
	Quantity not reported.....		xxx	6,964	...	...
3441219	Other.....		xxx	105,502	xxx	94,216
	Nonferrous metal:					
3441232	Aluminum:					
	Quantity reported.....	Short tons.....	53,474	35,832	(NA)	31,110
	Quantity not reported.....		xxx	21,710		
3441239	All other.....		xxx	9,288		
3441200	Ornamental and structural metalwork, not specified by type.....		xxx	54,345	xxx	34,820
34413--	Prefabricated and portable metal buildings, and parts.....		xxx	195,098	xxx	116,023
	Prefabricated and portable metal buildings, complete units (in sections or panels):					
3441315	Grain storage buildings (including farm and commercial types):					
	Quantity reported.....	Number.....	11,852	33,238	81,486	102,127
	Quantity not reported.....		xxx	10,891		
3441316	Farm buildings (livestock shelters, etc.):					
	Quantity reported.....	Number.....	17,555	27,227	81,486	102,127
	Quantity not reported.....		xxx	4,048		
3441318	Other prefabricated and portable metal buildings (including utility buildings, dwellings, garages, etc.):	Number.....	43,955	83,302		
3441351	Panels, parts, or sections for prefabricated buildings, not sold as a complete unit (including sandwich and single face panels).....	Short tons.....	43,299	26,061	xxx	9,057
3441300	Prefabricated and portable metal buildings and parts, not specified by type.....		xxx	10,331	xxx	4,839

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF STRUCTURAL AND ORNAMENTAL WORK SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3441---	Structural and ornamental work--Continued					
34414--	Miscellaneous metal building materials.....		xxx	402,363	xxx	240,446
	Metal plaster bases:					
3441411	Expanded metal lath.....	1,000 sq. yds.....	83,814	25,257	68,388	23,882
3441432	Metal plaster base accessories (including corner beads, screeds, grounds, etc.).....		xxx	27,210	xxx	17,853
3441442	Fabricated bar joists.....	Short tons.....	296,874	69,475	272,314	53,275
3441452	Fabricated concrete reinforcing bars.....	...do.....	1,232,329	217,004	903,608	130,361
3441471	Prefabricated exterior metal panels (curtain wall, sandwich panels, and single faced panels) excluding panels sold with or for prefabricated metal buildings.....	1,000 sq. ft.....	88,855	24,695	(NA)	(NA)
3441461	Lightning rods.....		xxx	24,429	xxx	15,075
3441498	All other structural and ornamental metal products.....		xxx	14,293	...	...
3441400	Miscellaneous metal building materials, not specified by type.....		xxx	77,055	xxx	39,142
3441000	Structural and ornamental products, not specified by type.....		xxx		xxx	

NA Not available.

xxx Not applicable.

¹For certain products value data only were reported for some establishments. In those instances where such values amounted to less than 10 percent of the total value for the products, an estimated quantity figure has been included in the total quantity shown for the product.

²Does not include structural steel fabricated for own use by establishments building ships.



GROUP 35

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34D-1

VITREOUS-ENAMELED PRODUCTS INDUSTRY

(Industry Code 3461—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Vitreous-Enameled Products Industry shipped products valued at \$80 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 20 percent from 1954 to 1958 to a total of 5.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$41 million in 1958, an increase of 12 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by other and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE VITREOUS-ENAMELED PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3461)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.8	7.3	-20
Payroll.....	Million dollars...	26.6	25.4	+5
Production workers:				
Number.....	Thousands.....	4.7	6.0	-22
Man-hours.....	Millions.....	9.4	11.1	-15
Wages.....	Million dollars...	19.5	19.3	+1
Value added by manufacture, unadjusted ².....	..do.....	39.6	36.6	+8
Value added by manufacture, adjusted ³.....	..do.....	40.6	36.2	+12
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	39.4	29.1	+35
Value of shipments ⁵.....	..do.....	79.9	65.8	+21
Capital expenditures, new.....	..do.....	1.9	1.2	+58
Number of establishments with 20 or more employees ⁶	Number.....	33	33	...

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Vitreous-Enameled Products Industry includes establishments engaged primarily in the manufacture of vitreous-enameled kitchen, household, and hospital utensils; table tops; refrigerator, stove, and washing machine parts, etc. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Vitreous-Enameled Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Vitreous-Enameled Products Industry amounted to \$80 million. Of this total, \$53 million were products primary to the industry, \$22 million were products primary to other industries, and \$5 million were receipts for miscellaneous activities. The industry shipments of primary products represented 71 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 72 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$74 million of vitreous-enameled products were shipped by all producers of these products. Of this total, \$53 million, or 72 percent, were shipped by plants classified in Industry 3461, Vitreous-Enameled Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.—GENERAL STATISTICS FOR THE VITREOUS-ENAMELED PRODUCTS INDUSTRY (S.I.C. CODE 3461), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,803	26,609	4,699	9,404	19,515	39,623	40,609	79,862	1,855	33	7,272	36,618
Northeast.....	2,282	10,383	1,844	3,713	7,965	15,160	15,954	29,619	1,090	13	2,523	11,781
Pennsylvania.....	1,617	7,333	1,327	2,602	5,743	10,513	11,075	21,257	296	7	1,897	8,311
East North Central.....	2,202	11,185	1,728	3,427	7,745	16,543	16,719	36,090	552	11	2,869	15,316
South and West.....	1,285	4,894	1,099	2,202	3,700	7,777	7,802	13,887	212	8	1,879	9,520

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF VITREOUS-ENAMELED PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Vitreous-Enameled Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3461---	Vitreous-enameled products, total.....	173,745	167,138
3461111	Cooking and kitchen utensils (including household, commercial and hospital).....	21,707	17,279
34612--	Other vitreous-enameled products.....	49,754	49,859
3461231	Refrigerator parts (household and commercial), sold separately.....	(²)	6,402
3461241	Architectural-vitreous (porcelain) parts (exterior and interior) including store fronts and curtain walls.....	16,954	12,088
3461271	Washing machine parts (sold separately).....	8,754	13,653
3461298	Other vitreous (porcelain) enameled products.....	21,943	17,716
3461000	Vitreous-enameled products, not specified by kind.....	4,387	...

¹Data are limited to vitreous-enameled products produced from materials owned by the producing company. Data do not include the value of receipts for enameling work done on materials owned by others (enameling of metal products for the trade).

²Vitreous-enameled refrigerator parts are included with "Other vitreous enameled products," product code 3461298.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34D-2

METAL STAMPINGS INDUSTRY

(Industry Code 3463--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metal Stampings Industry shipped products valued at \$1,996 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 118.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$994 million in 1958, an increase of 8 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE METAL STAMPINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3463)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	118.7	128.2	-7
Payroll.....	Million dollars...	613.6	569.5	+8
Production workers:				
Number.....	Thousands.....	94.4	106.3	-11
Man-hours.....	Millions.....	191.7	214.6	-11
Wages.....	Million dollars...	435.0	421.5	+3
Value added by manufacture, unadjusted ².....	..do.....	991.6	923.9	+7
Value added by manufacture, adjusted ³.....	..do.....	994.0	921.9	+8
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	992.4	838.9	+18
Value of shipments ⁵.....	..do.....	1,995.7	1,775.7	+12
Capital expenditures, new.....	..do.....	50.5	38.1	+32
Number of establishments with 20 or more employees ⁶	Number.....	1,008	897	+12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 35

The Metal Stampings Industry includes establishments engaged primarily in the manufacture of stampings of ferrous and nonferrous metals such as bottle caps; stamped kitchen household and hospital utensils; perforated metal; stamped and pressed machine parts; and automobile stampings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Metal Stampings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metal Stampings Industry amounted to \$1,996 million. Of this total, \$1,618 million were products primary to the industry, \$295 million were products primary to other industries, and \$83 million were receipts for miscellaneous activities. The industry shipments of primary products represented 85 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,906 million of metal stampings were shipped by all producers of these products. Of this total, \$1,618 million, or 85 percent, were shipped by plants classified in Industry 3463, Metal Stampings, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE METAL STAMPINGS INDUSTRY (S.I.C. CODE 3463), BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	118,693	613,563	94,409	191,683	434,954	991,580	994,016	1,995,715	50,516	1,008	128,200	923,939
New England.....	9,607	47,588	7,693	15,422	33,078	69,296	67,124	124,384	3,950	92	7,719	51,637
Massachusetts.....	3,445	15,764	2,794	5,788	10,965	22,894	22,929	38,736	833	52	3,397	19,784
Rhode Island.....	614	2,515	498	967	1,813	4,865	4,854	8,651	245	10	511	3,097
Connecticut.....	5,500	29,121	4,361	8,578	20,155	41,234	38,996	76,481	2,867	29	3,654	27,771
Middle Atlantic.....	30,406	155,312	23,667	47,920	108,644	245,537	248,101	489,197	9,613	229	31,175	211,430
New York.....	11,427	53,650	9,303	19,396	38,642	87,978	88,205	170,986	3,371	112	13,463	91,009
New Jersey.....	5,646	28,371	4,495	9,407	20,358	50,365	50,341	96,966	1,956	55	4,474	35,011
Pennsylvania.....	13,333	73,291	9,871	19,117	49,644	107,194	109,555	221,245	4,306	62	13,237	87,409
East North Central.....	60,534	321,760	48,530	98,899	228,926	531,124	533,089	1,080,505	29,565	503	70,100	528,216
Ohio.....	15,760	84,271	12,928	25,651	62,665	122,815	123,848	268,589	4,851	128	19,365	141,023
Indiana.....	5,804	31,639	4,557	9,590	22,507	55,137	55,250	112,817	1,603	36	5,370	37,507
Illinois.....	16,917	89,298	13,552	27,707	62,140	148,490	150,675	288,732	15,708	145	18,187	138,240
Michigan.....	13,386	76,492	10,468	21,818	53,517	124,693	123,945	257,502	4,063	147	17,420	142,106
Wisconsin.....	8,667	40,060	7,025	14,133	28,097	79,989	79,371	152,865	3,340	47	9,756	69,338
West North Central.....	4,302	21,035	3,412	6,913	14,886	34,309	34,021	59,763	1,398	44	4,235	28,569
Minnesota.....	1,456	7,234	1,148	2,399	5,231	11,240	11,240	18,336	202	17	1,676	11,736
Iowa.....	1,041	5,112	810	1,681	3,511	7,603	7,488	13,497	513	6	592	3,409
Missouri.....	1,530	7,650	1,235	2,421	5,332	13,524	13,352	24,365	628	17	1,589	10,441
South Atlantic.....	5,368	24,507	4,405	8,634	18,416	40,377	40,265	96,103	1,191	34	7,312	48,997
Maryland.....	2,058	10,618	1,587	3,050	7,669	16,718	16,808	37,462	461	8	3,658	27,989
West Virginia.....	991	4,765	838	1,615	3,749	6,583	6,366	17,871	184	5	1,751	10,344
Georgia.....	1,244	4,405	1,071	2,109	3,367	9,092	8,993	22,502	312	14	821	3,997
Florida.....	250	849	226	504	696	1,352	1,392	4,511	44	2	319	2,046
East South Central.....	2,191	10,041	1,733	3,380	7,292	14,593	14,810	34,451	2,294	19	2,248	11,745
Kentucky.....	1,287	6,074	1,039	2,271	4,866	7,506	7,592	17,318	348	11	1,973	10,143
Tennessee.....	389	1,501	351	394	733	1,635	2,163	4,444	...	4	246	1,486
West South Central.....	839	3,487	679	1,364	2,444	6,510	6,708	14,350	293	12	465	3,416
West.....	5,446	29,833	4,290	9,151	21,268	49,834	49,898	96,962	2,212	75	4,942	39,926
California.....	5,142	28,490	4,043	8,659	20,398	47,434	47,386	91,853	2,095	72	4,447	36,929

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF METAL STAMPINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Metal Stampings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3463----	Metal stampings, total.....	.....	xxx	1,906,291	xxx	1,632,764
34631--	Job stampings, except automotive ¹.....	.....	xxx	576,064	xxx	510,422
3463111	Aviation stampings.....	.....	xxx	29,945	xxx	29,403
3463115	Agricultural equipment stampings (including tractor).....	.....	xxx	28,397	xxx	24,618
3463121	Electrical appliance stampings (except refrigeration and washing machines).....	.....	xxx	50,496	xxx	30,286
3463131	Furniture stampings.....	.....	xxx	14,397	xxx	8,259
3463141	Office machine stampings.....	.....	xxx	14,402	xxx	6,021
3463151	Radio and television stampings.....	.....	xxx	73,693	xxx	86,944
3463161	Refrigerator stampings.....	.....	xxx	43,392	xxx	44,196
3463171	Stove, heater, and air-conditioning stampings.....	.....	xxx	21,407	xxx	22,924
3463181	Washing machine stampings.....	.....	xxx	23,150	xxx	19,266
3463198	Other job stampings.....	.....	xxx	231,629	xxx	215,703
3463100	Job stampings, except automotive, not specified by type.....	xxx	45,156	xxx	22,802

See footnotes at end of table.

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Table 3.--QUANTITY AND VALUE OF METAL STAMPINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3463---	Metal stampings--Continued					
34632--	Stamped and spun hospital utensils, and cooking and kitchen household utensils.....	xxx	224,205	xxx	200,902	
	Stamped and spun household and hospital utensils (excluding porcelain enameled):					
	Cooking and kitchen utensils (household, hospital, and commercial):					
	Aluminum:					
3463201	Household (including domestic pressure cookers).....	xxx	96,783	xxx	92,517	
3463205	Commercial and hospital.....	xxx	14,065	xxx	61,902	
3463213	Stainless steel.....	xxx	61,148	xxx	16,269	
3463215	Tinware.....	xxx	12,176	xxx	16,532	
3463219	Other metal.....	xxx	23,483	xxx	5,289	
3463251	Hospital utensils, excluding cooking and kitchen.....					
3463200	Stamped and spun household utensils and cooking and kitchen household utensils, not specified by type.....	xxx	16,550	xxx	8,393	
34633--	Pails, ash cans, garbage cans, tubs, etc. (excluding shipping containers).....	xxx	41,925	xxx	44,652	
3463311	Galvanized steel.....	xxx	32,219	xxx	31,440	
3463351	Other steel.....	xxx	7,322	xxx	8,188	
3463398	Other metal.....	xxx	589	xxx	3,561	
3463300	Pails, ash cans, garbage cans, not specified by type.....	xxx	1,793	xxx	1,463	
34634--	Metal home canning closures (except glass lids, sealing rings, and crowns) ²	xxx	19,694	xxx	17,673	
	Tin mill products:					
3463411	Metal screw bands.....	1,000 gross.....	2,975	5,314	2,929	4,801
3463451	Metal lids (flowed-on-rubber).....	..do.....	10,064	12,114	9,446	11,134
3463498	Other home canning closures.....	..do.....	(NA)	2,266	(NA)	1,738
3463400	Metal home canning closures, not specified by type.....		(NA)	132,070	xxx	94,949
34635--	Metal commercial closures, including milk bottle, except crowns ² . Screw thread and lug types (nonvacuum) for glass containers:					
	Aluminum.....	1,000 units.....	2,140,799	13,808	³ 1,820,782	³ 10,103
3463531	Tin mill.....	..do.....	7,407,765	49,986	³ 7,025,355	³ 41,778
3463541	Vacuum types (aluminum and tin mill) for glass containers.....	..do.....	4,440,606	44,246	³ 3,478,075	³ 32,272
3463545	Other metal commercial closures for glass containers.....	..do.....	602,030	2,571	³ 496,817	³ 2,221
3463547	Metal commercial closures for metal and plastic containers.....	..do.....	xxx	11,284	(³)	(³)
3463551	Milk bottle closures (aluminum and tin mill only) for glass containers.....					
3463500	Metal commercial closures, including milk bottle, except crowns, not specified by type.....	xxx	10,175	xxx	8,265	310
3463611	Metal crowns, including beverage and other ²	1,000 gross.....	335,571	87,082	330,939	78,443
3463713	Automotive stampings (truck, bus, and passenger car) ¹	xxx	552,819	xxx	474,349	
34638--	Other stamped or pressed metal end products, including perforated					
3463811	Perforated metal end products.....	xxx	161,865	xxx	184,188	
3463898	Other stamped or pressed metal end products.....	xxx	14,814	xxx	20,238	
3463800	Other stamped or pressed metal end products, not specified by type.....	xxx	139,813	xxx	163,950	
3463911	Receipts for job stamping done for others on their own materials.....	xxx	24,189	xxx	(*)	
3463000	Metal stampings, not specified by type.....	xxx	86,378	xxx	27,186	

NA Not available.

xxx Not applicable.

¹Job stampings" are mainly parts which are sold to other manufacturers for incorporation into their own products. Job stampings may be made from materials owned by the establishment or from materials owned by the customer. These figures represent only those stampings made from materials owned by the establishment performing the stamping operation. See code 3463911 for the value received for stamping of materials owned by the customer.

²Figures for 1958 and 1954 as reported on Monthly Survey M34H, "Closures for Glass Containers, and Crowns, are as follows:

Product	Unit of measure	Quantity of shipments including interplant transfers	
		1958	1954
Home canning closures for glass containers, total.....	1,000 gross	14,382	14,032
Tin mill products:			
Metal screw bands.....	..do.....	3,005	2,726
Metal lids (flowed-on-rubber).....	..do.....	10,435	9,796
Other home canning closures, including zinc screw caps and bands (one-piece), glass lids, shoulder seal jar rings, top seal jar rings and other type home canning closures...	..do.....	942	1,510
Metal commercial closures for glass containers:			
Aluminum screw thread and lug type.....	1,000 units	1,973,869	1,834,274
Tin screw thread and lug type.....	..do.....	7,776,361	6,210,708
Vacuum (friction) types, aluminum and tin.....	..do.....	4,301,933	3,469,761
Other types, aluminum and tin.....	..do.....	600,916	490,695
Milk bottle closures, aluminum and tin mill only.....	..do.....	3,666,296	4,053,720
Crowns.....	1,000 gross	306,765	313,741

³For 1954, metal closures for metal and plastic containers were included with closures for glass containers by type of closure.

⁴Receipts for contract and commission work for Industry 3463 in 1954 totaled \$46,951 thousand. A substantial portion of this value represented receipts for job stampings produced from customers' material.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P) 34E-1

NAILS AND SPIKES INDUSTRY

(Industry Code 3481--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Nails and Spikes Industry shipped products valued at \$43 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 2.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$23 million in 1958, an increase of 25 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE NAILS AND SPIKES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3481)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.8	2.7	+4
Payroll.....	Million dollars...	12.0	10.4	+15
Production workers:				
Number.....	Thousands.....	2.2	2.3	-4
Man-hours.....	Millions.....	4.6	4.8	-4
Wages.....	Million dollars...	9.1	7.6	+20
Value added by manufacture, unadjusted ².....	..do.....	22.6	18.4	+23
Value added by manufacture, adjusted ³.....	..do.....	23.0	18.4	+25
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	20.2	15.8	+28
Value of shipments ⁵.....	..do.....	43.2	34.4	+26
Capital expenditures, new.....	..do.....	.9	.6	+50
Number of establishments with 20 or more employees ⁶	Number.....	34	37	-8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 35

The Nails and Spikes Industry includes establishments engaged primarily in the manufacture of wire and cut nails, brads, spikes, staples and tacks from purchased wire and plate. Establishments primarily engaged in drawing wire from purchased rods and in manufacturing nails, brads, spikes and staples are classified in Industry 3392, Wire Drawing, and Rolling Mills. Manufacturing these products are classified in Industry 3312, "Blast Furnaces and Steel Mills." This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Nails and Spikes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Nails and Spikes Industry amounted to \$43 million. Of this total, \$33 million were products primary to the industry, \$8 million were products primary to the other industries, \$2 million were receipts for miscellaneous activities. The industry shipments of primary products represented 80 percent of the total manu-

factured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$162 million of Nails and Spikes were shipped by all producers of these products. Of this total, \$32 million, or 20 percent, were shipped by plants classified in Industry 3481, Nails and Spikes, while the remainder was shipped by plants classified in other industries, mainly Industry 3312, Blast Furnaces and Steel Mills and Industry 3392, Wire Drawing.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE NAILS AND SPIKES INDUSTRY (S.I.C. CODE 3481), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	2,794	11,949	2,208	4,630	9,068	22,593	22,996	43,163	864	34	2,701	18,447
New England.....	948	3,512	818	1,659	2,881	6,123	6,198	11,305	145	10	759	4,783
Massachusetts.....	465	1,764	385	798	1,396	2,866	2,875	5,516	59	8	388	2,241
Middle Atlantic.....	310	1,436	249	501	928	2,300	2,316	3,846	96	4	383	2,178
North Central.....	1,192	5,635	851	1,943	4,198	11,506	11,644	21,150	559	13	1,101	8,825
Illinois.....	875	4,386	599	1,459	3,259	8,368	8,543	15,060	362	8	747	5,922

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF NAILS AND SPIKES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Nails and Spikes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3481--	Nails and spikes, total.....	xxx	161,783	xxx	153,106
34810--	Made in steel works (Industry 3312).....	xxx	96,188	xxx	98,496
	Made by wire drawers (Industry 3392).....	xxx	13,127	xxx	12,371
	Made in nails and spikes (Industry 3481) and other industries....	xxx	52,468	xxx	42,239
	Steel wire nails, spikes, and brads:				
3481011	Bright.....	293,350	62,588	407,861	66,359
3481013	Galvanized.....	73,114	20,671	82,017	19,376
3481017	Cement-coated.....	63,133	14,359	73,559	12,670
3481019	Other.....	28,423	9,643	30,064	9,646
3481023	Steel wire staples.....	81,237	20,758	(NA)	15,844
3481027	Steel wire tacks.....	1,577	863		
3481031	Steel cut nails, spikes and brads (including horseshoe nails, and track spikes).....	87,889	17,613	78,450	13,495
3481035	Steel cut tacks:				
	Quantity reported.....	10,365	6,429	13,617	7,465
	Quantity not reported.....	...	1,560	...	568
3481051	Nonferrous nails, brads, tacks, and staples.....	1,953	2,051	(NA)	5,429
3481097	Ferrous nails, spikes, brads and tacks not specified by kind....	xxx	1,227	xxx	...
3481000	Nails, spikes, brads, and tacks not specified by kind.....	xxx	4,021	xxx	2,254

xxx Not applicable.

NA Not available.

DEPARTMENT OF COMMERCE
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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-34E-2

LIGHTING FIXTURES INDUSTRY

(Industry Code 3471—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Lighting Fixtures Industry shipped products valued at \$825 million, an increase of 25 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 5 percent from 1954 to 1958 to a total of 47.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$397 million in 1958, an increase of 22 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE LIGHTING FIXTURES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3471)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	47.3	45.1	+5
Payroll.....	Million dollars...	215.5	182.0	+18
Production workers:				
Number.....	Thousands.....	36.4	36.4	-
Man-hours.....	Millions.....	72.7	73.7	-1
Wages.....	Million dollars...	143.6	128.8	+12
Value added by manufacture, unadjusted ².....	...do.....	397.6	323.7	+23
Value added by manufacture, adjusted ³.....	...do.....	396.7	324.7	+22
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	419.8	332.8	+26
Value of shipments ⁵.....	...do.....	824.9	660.1	+25
Capital expenditures, new.....	...do.....	14.4	14.2	+1
Number of establishments with 20 or more employees ⁶	Number.....	428	381	+12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 35

The Lighting Fixtures Industry includes establishments engaged primarily in the manufacture of lighting fixtures and equipment of any type, including electric and gas lighting fixtures, carbide, kerosene, and gasoline lamps and metal reflectors and fittings. Also included are vehicular lighting equipment, flashlights and lanterns. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Lighting Fixtures Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Lighting Fixtures Industry amounted to \$825 million. Of this total, \$659 million were products primary to the industry, \$131 million were products primary to other industries, and \$35 million were receipts for miscellaneous activities. The industry shipments of primary products represented 83 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$762 million of lighting fixtures were shipped by all producers of these products. Of this total, \$659 million, or 87 percent, were shipped by plants classified in Industry 3471, Lighting Fixtures, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE LIGHTING FIXTURES INDUSTRY (S.I.C. CODE 3471), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	47,294	215,475	36,430	72,746	143,579	397,627	396,653	824,889	14,421	428	45,078	323,711
New England.....	3,302	14,500	2,482	5,025	9,700	27,178	26,656	50,437	899	25	3,379	25,918
Massachusetts.....	2,032	8,747	1,526	3,156	5,835	16,917	16,696	31,720	639	14	2,174	18,393
Connecticut.....	907	4,254	682	1,372	2,842	6,546	6,516	11,751	202	7	851	5,457
Middle Atlantic.....	15,645	64,512	12,543	24,856	45,708	119,008	120,718	258,445	3,945	184	14,642	96,525
New York.....	7,931	34,119	6,265	12,550	23,279	63,050	63,188	130,737	1,899	96	8,004	53,847
New Jersey.....	3,135	12,941	2,595	5,380	9,567	22,990	23,807	51,854	1,072	35	2,731	17,374
Pennsylvania.....	4,579	17,452	3,683	6,926	12,862	32,968	33,723	75,854	974	53	3,905	25,303
East North Central.....	17,526	87,073	13,053	25,854	56,334	152,161	146,867	301,947	5,534	110	20,227	148,943
Ohio.....	4,774	24,564	3,356	6,605	15,157	45,266	41,837	88,302	1,156	29	6,150	43,035
Illinois.....	6,154	28,132	4,652	9,445	17,225	46,612	46,555	104,661	1,334	64	6,030	45,686
Michigan.....	645	3,742	510	1,013	2,383	8,021	7,797	16,796	453	6	1,692	12,507
West North Central.....	1,705	7,374	1,314	2,681	4,915	12,705	12,591	25,676	298	17	1,529	12,855
Missouri.....	1,567	6,738	1,197	2,423	4,501	11,533	11,359	23,764	287	15	1,455	12,548
South Atlantic.....	1,535	6,757	1,103	2,082	4,145	17,641	17,212	37,004	831	10	801	6,079
Florida.....	321	1,051	241	462	739	1,552	1,540	3,816	76	5	242	1,056
East South Central.....	1,917	7,660	1,529	3,215	4,880	17,610	19,303	42,102	605	10	1,049	6,979
Kentucky.....	719	2,332	545	1,166	1,465	4,588	6,479	16,494	302	4	284	1,856
West South Central.....	341	1,459	262	468	770	3,412	3,538	8,505	615	6	225	1,903
Texas.....	311	1,321	235	409	690	3,248	3,233	8,015	178	6	200	1,733
West.....	5,323	26,140	4,144	8,565	17,127	47,912	49,768	100,773	1,694	66	3,224	24,506
California.....	4,914	23,935	3,849	7,947	15,756	44,060	46,026	93,148	947	62	3,061	23,481

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF LIGHTING FIXTURES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Lighting Fixtures Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3471--	Lighting fixtures, total.....	761,676	632,327
34711--	Complete incandescent lighting fixtures, except specialties.....	137,311	96,593
	Incandescent lighting fixtures:		
	Residential type:		
3471111	Interior ceiling or pendant (including bath or kitchen).....	50,134	36,885
3471113	Interior wall or bracket (including bath or kitchen).....	9,358	6,675
3471119	Other residential type fixtures (outdoor, porch, etc.).....	11,929	7,916
	Commercial and institutional type:		
3471132	Surface or pendant.....	20,705	19,858
3471134	Recessed.....	18,215	
3471135	Specialized commercial and institutional lighting fixtures such as interior display, etc.....	2,651	3,304
	Industrial type:		
3471151	General lighting.....	8,122	9,105
3471159	Other industrial type fixtures (including explosion-proof, vapor-proof, and dust-tight).....	3,431	5,812
3471100	Complete incandescent lighting fixtures, not specified by kind.....	12,766	7,038
34712--	Incandescent portable lamps, complete.....	129,463	110,395
	Residential type:		
	Complete with shade:		
3471211	Floor, bridge and torch lamps.....	25,915	30,722
3471212	Wall lamps (including adjustable types).....	6,729	(1)
3471213	Table lamps.....	61,415	49,973
3471219	Other (including boudoir).....	12,715	18,063
3471232	Lamps sold without shades (including floor, bridge, table, etc.).....	2,922	5,357
3471298	Other portable lamps (including commercial, institutional and industrial types).....	2,549	4,733
3471200	Incandescent portable lamps, complete, not specified by kind.....	17,218	11,547
34713--	Incandescent vehicular lighting equipment, complete.....	103,858	141,223
	Motor vehicle lighting equipment:		
3471311	Headlight fixtures (except bulbs).....	18,483	24,513
3471315			
	Spot, fog, and auxiliary lighting equipment:		
3471331	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	2,968	3,221
3471335	Shipments to all other customers.....	5,338	4,415
	Other (parking, dome, tail lights, etc.):		
3471351	Shipments to motor vehicle manufacturers (auto, truck, bus, trailers, etc.).....	48,863	89,728
3471355	Shipments to all other customers.....	12,493	9,982
3471398	Other vehicular type lighting equipment such as aircraft, watercraft, railway locomotive and car, streetcar, etc.....	14,020	9,364
3471300	Incandescent vehicular lighting equipment, not specified by kind.....	1,693	...
34714--	Incandescent hand portable lighting equipment, excluding parts.....	18,028	22,635
3471411	Flashlights and flashlight lanterns (one to five cells).....	13,941	14,762
3471498	Other, such as miners' lights, emergency warning lights, generator flashlights, etc...	3,650	6,934
3471400	Incandescent hand portable lighting equipment, excluding parts, not specified by kind.....	437	939
34715--	Incandescent street and highway lighting equipment (excluding traffic signals).....	34,774	18,282
3471511	Luminaries, all types.....	12,410	10,216
3471551	Standards, newels, brackets, and accessories.....	22,204	5,205
3471500	Incandescent street and highway lighting equipment, including standards, brackets, and accessories, not specified by kind.....	160	2,861
34716--	All other specialized incandescent lighting equipment and mercury vapor lighting equipment and parts for all incandescent lighting equipment.....	41,551	45,460
	Floodlighting equipment:		
3471611	Floodlights (general type).....	13,245	11,905
3471613	Searchlights.....	812	5,610
3471615	Spotlights (including such items as indoor and stage but excluding vehicular type).....	3,852	4,404
3471631	Aviation ground type lighting fixtures (airport, airway, seadrome, and flight deck).....	4,693	6,360
3471643	Mercury vapor street and highway lighting equipment (excluding ballasts).....	5,104	5,486
3471651	Other electric lighting equipment, including electrical discharge such as mercury vapor (other than street and highway lighting equipment) sodium vapor, etc. (excluding signs).....	3,630	
3471698	Other incandescent electric lighting equipment, including marine markers or beacons, railway and other vehicular route lighting equipment, parts and accessories such as reflectors, etc. but excluding wiring devices sold separately.....	10,215	11,695

See footnotes at end of table.

Table 3.--VALUE OF LIGHTING FIXTURES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3471---	Lighting fixtures--Continued		
34717--	Fluorescent (fixtures and portable lamps) and parts.....	223,591	168,669
	Fixtures (excluding portable lamps):		
3471711	Residential type.....	12,970	13,211
	Commercial or institutional type:		
3471712	Surface or pendant.....	93,908	78,646
3471713	Recessed.....	28,895	12,475
	Industrial type:		
3471715	General lighting.....	38,256	31,756
3471717	Other industrial fixtures, including explosion-proof, vapor-proof, and dust-tight.....	2,603	2,983
3471725	Area lighting equipment.....	9,051	(NA)
3471721	Street and highway lighting equipment.....		
3471729	Other fixtures including vehicular type lighting equipment such as automobile, bus, aircraft, watercraft, railway locomotive and car, streetcar, etc.....	5,714	3,168
3471751	Portable lamps (desk, etc.).....	3,188	6,140
3471761	Light strips.....	6,430	(NA)
3471781	Parts and accessories for fluorescent lighting equipment, excluding tubes, ballasts, starting switches, and lampholders, but including reflectors, etc.....	3,118	3,705
3471798	Other fluorescent lighting equipment, complete units (including processing and technical equipment).....	2,216	5,784
3471700	Fluorescent lighting equipment (fixtures and portable lamps) and parts, not specified by kind.....	17,242	10,801
34718--	Nonelectric lighting equipment, including parts.....	19,061	9,854
3471813	Kerosene and gasoline lamps and lanterns.....	6,456	5,917
3471851	Parts and accessories for nonelectric lighting equipment, including reflectors and fittings, incandescent mantles, etc.....	7,612	2,973
3471898	Other nonelectric lighting fixtures and equipment, complete units (including carbide lamps of all types).....	3,454	964
3471800	Nonelectric lighting equipment, not specified by kind.....	1,539	...
3471000	Lighting fixtures, not specified by kind.....	54,039	19,216

NA Not available.

¹Other complete incandescent portable lamps (product code 3471219) includes wall lamps for 1954.²Not strictly comparable with figures for 1958. The 1954 figures were reported as "headlights, sealed beam units." Shipments in 1954 totaled 12,985 thousand units.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-34E-3

WIREWORK, N.E.C., INDUSTRY

(Industry Code 3489--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Wirework, Not Elsewhere Classified, Industry shipped products valued at \$867 million, an increase of 13 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 55.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$436 million in 1958, an increase of 5 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE WIREWORK, N.E.C., INDUSTRY: 1958 AND 1954

(Standard Industrial Classification Code 3489)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	55.0	59.9	-8
Payroll.....	Million dollars...	258.8	243.9	+6
Production workers:				
Number.....	Thousands.....	43.7	50.1	-13
Man-hours.....	Millions.....	86.6	99.3	-13
Wages.....	Million dollars...	182.9	181.8	+1
Value added by manufacture, unadjusted ²	do.....	438.4	412.4	+6
Value added by manufacture, adjusted ³	do.....	435.8	413.3	+5
Cost of materials, fuel, electricity, and contract work ⁴	do.....	422.4	352.5	+20
Value of shipments ⁵	do.....	867.4	768.7	+13
Capital expenditures, new.....	do.....	19.4	17.5	+11
Number of establishments with 20 or more employees ⁶	Number.....	532	498	+7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

GROUP 35

The Wirework, N.E.C., Industry includes establishments engaged primarily in the manufacture, from purchased wire, of ferrous and non-ferrous wire products, n.e.c. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Wirework, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Wirework, N.E.C., Industry amounted to \$867 million. Of this total, \$755 million were products primary to the industry, \$59 million were products primary to other industries, and \$53 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,220 million of wire products, n.e.c., were shipped by all producers of these products. Of this total, \$755 million, or 62 percent were shipped by plants classified in Industry 3489, Wirework, N.E.C., while the remainder was shipped by plants classified in other industries, mainly Industry 3312, Blast Furnaces and Steel Works and Industry 3392, Wire Drawing.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE WIREWORK, N.E.C., INDUSTRY (S.I.C. CODE 3489) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,989	258,758	43,745	86,615	182,926	438,391	435,798	867,402	19,422	532	59,929	412,368
New England.....	5,023	23,059	4,017	8,266	16,102	37,224	35,927	65,544	1,645	57	7,160	44,845
Massachusetts.....	2,219	10,198	1,761	3,591	7,434	16,646	15,233	31,288	783	26	2,277	14,488
Middle Atlantic.....	13,869	63,953	11,032	21,959	46,056	115,667	114,429	221,449	4,864	121	16,168	111,861
New York.....	4,646	19,637	3,722	7,551	13,899	32,914	33,035	59,586	1,427	57	5,729	35,099
East North Central.....	22,330	112,560	17,634	34,657	79,457	175,425	175,049	330,482	7,846	188	23,815	162,084
Ohio.....	4,270	21,924	3,170	6,135	14,735	37,392	38,469	68,855	1,744	38	4,740	34,355
Illinois.....	7,627	38,379	6,233	12,598	28,354	60,282	58,988	111,010	3,005	61	8,416	56,488
Wisconsin.....	971	5,689	806	1,689	4,103	10,518	10,786	17,057	434	11	515	3,118
West North Central.....	3,151	15,293	2,543	5,086	10,093	28,321	27,670	54,392	758	33	3,491	24,208
Minnesota.....	438	2,018	388	778	1,554	3,615	3,473	6,085	108	5	310	1,760
Iowa.....	439	1,780	379	712	1,336	2,639	2,370	6,791	118	4	456	2,412
Missouri.....	1,922	10,054	1,472	2,994	6,150	19,274	19,016	35,614	355	19	2,445	18,700
Kansas.....	285	1,174	246	468	858	2,406	2,412	4,765	160	4	247	1,198
South.....	5,948	21,530	4,879	9,445	15,502	44,897	45,760	111,476	2,785	66	5,350	41,967
North Carolina.....	861	2,408	792	1,261	1,784	3,944	4,041	11,352	190	7	546	2,526
Kentucky.....	351	1,420	283	578	972	2,074	2,182	4,587	209	3	458	2,629
Tennessee.....	708	1,994	620	1,169	1,564	3,242	3,372	7,718	168	9	589	2,917
Oklahoma.....	435	1,770	375	751	1,503	2,247	2,281	6,719	74	2	48	308
West.....	4,668	22,363	3,640	7,202	15,716	36,857	36,963	84,059	1,524	67	4,296	29,533
California.....	4,147	20,093	3,253	6,463	14,128	32,578	32,305	72,882	1,252	58	3,852	26,336

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF WIREWORK, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classed in the Wirework, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity	Value	Quantity	Value
		(short tons)	(\$1,000)	(short tons)	(\$1,000)
3489---	Wirework, n.e.c., total.....	xxx	1,220,487	xxx	1,033,989
34891--	Wire springs:				
	Made by wire drawers (Industry 3392).....	xxx	16,332	xxx	11,317
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	279,962	xxx	277,803
	Total all industries.....	xxx	296,294	xxx	289,120
	Upholstery and furniture springs, unassembled:				
3489111	Seat and back springs for motor vehicles:				
	Quantity reported.....	122,349	61,700	168,729	88,117
	Quantity not reported.....	xxx	14,844	xxx	...
3489113	Springs for mattresses and bed springs:				
	Quantity reported.....	15,132	7,049	14,489	5,114
	Quantity not reported.....	xxx	1,107	xxx	2,048
3489117	Spring units for box springs, innerspring mattresses, and dual purpose sleep furniture.....	xxx	52,921		
3489118	Spring units for upholstered furniture:				
	Quantity reported.....	23,090	10,428	xxx	58,191
	Quantity not reported.....	xxx	3,316		
3489119	Other upholstery and furniture springs (unassembled):				
	Quantity reported.....	7,592	2,916	23,157	8,479
	Quantity not reported.....	xxx	473	xxx	1,860
3489151	Precision mechanical springs:				
	Quantity reported.....	98,024	101,137	98,163	79,738
	Quantity not reported.....	xxx	8,017	xxx	18,311
3489198	Other wire springs:				
	Quantity reported.....	28,129	15,578	29,005	15,560
	Quantity not reported.....	xxx	3,916	xxx	4,769
3489100	Wire springs, not specified by kind.....	xxx	12,892	xxx	6,933
34892--	Noninsulated wire rope, cable and strand, except copper:				
	Made by wire drawers (Industry 3392).....	xxx	106,320	xxx	99,164
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	120,736	xxx	94,780
	Total, all industries.....	xxx	227,056	xxx	193,944
3489211	Iron and steel wire rope and cable.....	187,395	125,025	169,076	106,877
3489221	Composite strand, rope and cable, including wire strands of different metals (except ACSR):				
	Quantity reported.....	19,084	10,223	7,350	4,906
	Quantity not reported.....	xxx	...	xxx	610
3489231	Iron and steel wire strand (including guard rail cable):				
	Quantity reported.....	53,574	21,575	79,517	29,228
	Quantity not reported.....	...	4,769	...	...
3489261	Aluminum cable-steel reinforced (ACSR) and other bare aluminum cable.....	193,329	63,670	98,712	51,069
3489200	Wire rope, cable, and strand (except copper) not specified by kind.....	xxx	1,854	xxx	1,254
34893--	Fencing and fence gates:				
	Made by wire drawers (Industry 3392).....	xxx	7,931	xxx	3,489
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	92,816	xxx	89,420
	Total, all industries.....	xxx	100,747	xxx	92,909
3489311	Chain link fencing (including posts, gates and fittings):				
	Quantity reported.....	113,936	38,848	135,927	45,648
	Quantity not reported.....	xxx	11,454	xxx	...
3489321	Wire fence, woven and welded.....	159,017	35,752	208,326	33,177
3489331	Fence gates, wire (excluding chain link).....	7,097	2,024	(NA)	3,313
3489371	Ornamental lawn fence.....	19,754	5,695	37,811	8,051
3489300	Fencing and fence gates, not specified by kind.....	xxx	6,974	xxx	2,720
34894--	Wire cloth and other woven wire products:				
	Made by wire drawers (Industry 3392).....	xxx	29,753	xxx	22,404
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	126,525	xxx	108,771
	Total, all industries.....	xxx	156,278	xxx	131,175
3489411	Woven wire netting (poultry, fur farm, stucco, etc.).....	52,189	16,460	65,498	16,544
		(1,000 sq. ft.)		(1,000 sq. ft.)	
3489421	Insect wire screening:				
	Steel.....	217,660	9,791	295,872	13,162
3489423	Copper and copper-base alloy:				
	Quantity reported.....	27,399	2,332	53,792	5,102
	Quantity not reported.....	xxx	589	xxx	...
3489425	Aluminum.....	305,356	18,239	212,874	16,779
3489429	Nonferrous metal, excluding copper, copper-base alloy and aluminum.....	xxx	(2)	(NA)	125
		(short tons)		(short tons)	
3489431	Hardware cloth.....	10,162	7,218	10,892	6,071

See footnotes at end of table.

Table 3.--QUANTITY AND VALUE OF WIREWORK, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity	Value	Quantity	Value
		(1,000 sq. ft.)	(\$1,000)	(1,000 sq. ft.)	(\$1,000)
3489--- 34894-- 3489451	Wirework, n.e.c.--Continued Wire cloth and other woven wire products--Continued Paper machine wire cloth (fourdrinier and cylinder).....	29,343	39,364	17,814	20,690
		(short tons)		(short tons)	
3489461	Industrial wire cloth: Steel:				
	Quantity reported.....	42,066	22,223	58,993	24,536
	Quantity not reported.....	xxx	2,452	xxx	...
3489465	Nonferrous metal:				
	Quantity reported.....	8,663	5,793	(NA)	8,828
	Quantity not reported.....	xxx	1,241		
3489498	Other wire cloth and woven wire products (including diamond cloth, spiral cloth, drying belts, etc.).....	xxx	216,954	xxx	14,562
3489400	Wire cloth and woven wire products, not specified by kind..	xxx	13,622	xxx	5,276
34895--	Other wire products:				
	Made by wire drawers (Industry 3392).....	xxx	37,023	xxx	15,467
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	366,483	xxx	297,915
	Total, all industries.....	xxx	403,506	xxx	313,382
3489511	Barbed and twisted wire.....	60,469	14,631	142,188	23,041
3489521	Wire bale ties.....	71,260	15,682	93,551	16,575
	Welded steel wire fabric:				
3489531	Concrete reinforcing mesh.....	548,631	103,738	407,308	60,491
3489539	Other welded steel wire fabric.....	42,455	13,255	81,701	20,179
	Wire chain:				
3489541	Tire.....	28,844	20,141	19,738	9,912
3489549	Other.....	47,944	34,553	43,960	25,112
		(1,000 pounds)		(1,000 pounds)	
3489551	Wire garment hangers.....	146,672	19,517	131,816	17,042
3489598	Other wire products, including cages, guards, florists' designs, kitchenware goods, paper clips, etc.....	xxx	154,995	xxx	141,030
3489500	Other wire products, not specified by kind.....	xxx	26,994	xxx	xxx
3489000	Wirework, not specified by kind:				
	Made by wire drawers (Industry 3392).....	xxx	12	xxx	220
	Made in wirework, n.e.c. (Industry 3489) and other industries.....	xxx	36,594	xxx	13,039
	Total, all industries.....	xxx	36,606	xxx	13,259

NA Not available.

xxx Not applicable.

¹Data for ACSR and aluminum, cable, bare are also published monthly in Facts for Industry Series M53-2 "Aluminum Ingot and Mill Products and Magnesium Mill Products" Net shipments as reported in this series for the year 1958 totalled 87,424 short tons. However, this quantity represents aluminum content only. The 93,329 short tons reported in the Census of Manufactures represents gross weights. In addition, an unspecified amount of ACSR was produced on a toll basis. Tonnages produced on toll are included in data in the Facts for Industry Series but are excluded in the tonnages shown in this report.

²Nonferrous metal insect wire screening other than copper, copper-base alloy and aluminum, (product code 3489429), is included with product code 3489498.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

GROUP 35

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC (P) -34F-1

BOLTS, NUTS, WASHERS, AND RIVETS INDUSTRY

(Industry Code 3494--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Bolts, Nuts, Washers, and Rivets Industry shipped products valued at \$885 million, an increase of 20 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed no change from 1954 to 1958 and totaled 53.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$507 million in 1958, an increase of 20 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE BOLTS, NUTS, WASHERS, AND RIVETS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3494)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	53.6	53.7	
Payroll.....	Million dollars...	287.8	246.2	+17
Production workers:				
Number.....	Thousands.....	40.5	42.3	-4
Man-hours.....	Millions.....	81.6	86.4	-6
Wages.....	Million dollars...	193.3	173.0	+12
Value added by manufacture, unadjusted ².....	...do.....	503.1	411.7	+22
Value added by manufacture, adjusted ³.....	...do.....	507.0	421.5	+20
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	372.8	318.8	+17
Value of shipments ⁵.....	...do.....	884.9	738.5	+20
Capital expenditures, new.....	...do.....	44.6	26.1	+71
Number of establishments with 20 or more employees ⁶	Number.....	285	256	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Bolts, Nuts, Washers, and Rivets Industry includes establishments engaged primarily in the manufacture of bolts, nuts, washers, rivets, turnbuckles, wood screws and toggle bolts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Bolts, Nuts, Washers and Rivets Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Bolts, Nuts, Washers, and Rivets Industry amounted to \$885 million. Of this total, \$766 million were products primary to the industry, \$107 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$865 million of bolts, nuts, washers, and rivets were shipped by all producers of these products. Of this total, \$766 million, or 89 percent, were shipped by plants classified in Industry 3494, Bolts, Nuts, Washers, and Rivets while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE BOLTS, NUTS, WASHERS, AND RIVETS INDUSTRY (S.I.C. CODE 3494), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	53,632	287,790	40,524	81,569	193,339	503,112	507,025	884,942	44,640	285	53,729	411,662
New England.....	9,247	46,121	7,013	14,855	31,533	72,147	70,669	119,218	6,394	44	9,918	68,490
Massachusetts.....	4,641	23,263	3,527	7,642	16,424	34,687	34,874	56,964	1,553	14	4,933	33,419
Connecticut.....	3,486	17,858	2,582	5,374	11,572	29,221	27,468	47,119	4,633	20	3,971	28,736
Middle Atlantic.....	11,661	62,476	8,362	16,427	39,708	110,460	111,429	185,314	14,138	52	12,131	87,123
New York.....	2,426	12,887	1,752	3,698	8,114	24,318	25,191	45,977	2,600	12	2,970	21,853
New Jersey.....	2,821	15,811	1,983	3,878	10,003	27,958	27,026	41,986	714	14	2,165	21,513
Pennsylvania.....	6,414	33,778	4,627	8,851	21,591	58,184	59,212	97,351	10,824	26	6,995	43,756
East North Central....	25,970	143,021	19,830	39,288	97,546	243,385	245,838	445,685	15,517	135	27,483	220,348
Ohio.....	9,222	49,400	7,146	13,478	34,313	82,751	85,930	152,988	4,444	41	10,046	76,303
Indiana.....	1,292	6,723	988	1,921	4,548	12,900	12,811	23,664	329	10	1,351	9,553
Illinois.....	11,174	62,319	8,429	16,964	42,237	105,780	105,203	186,206	7,790	48	10,796	85,362
Michigan.....	3,676	21,472	2,842	6,056	14,530	35,527	35,493	71,747	2,719	32	4,583	42,857
Wisconsin.....	606	3,107	425	869	1,918	6,427	6,401	11,080	235	4	705	6,272
West North Central....	613	2,606	440	836	1,722	4,039	4,374	7,652	250	5	486	3,209
South Atlantic.....	1,102	4,690	948	1,862	3,251	10,708	10,654	18,294	399	6	668	5,020
East South Central....	801	3,954	671	1,211	2,836	8,515	8,853	17,688	491	5	661	6,483
West South Central....	327	1,387	254	541	971	3,252	3,269	7,357	169	3	125	1,143
West.....	3,911	23,535	3,006	6,549	15,772	50,606	51,939	83,734	7,282	35	2,255	19,843
California.....	3,813	22,994	2,933	6,403	15,437	49,803	50,908	81,498	7,252	33	2,160	19,266

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

GROUP 35

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF BOLTS, NUTS, WASHERS AND RIVETS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Bolts, Nuts, Washers and Rivets Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (1,000)	Quantity	Value (1,000)
3494--	Bolts, nuts, washers, and rivets, total.....	.....	xxx	864,963	xxx	706,392
34941--	Bolts, nuts, screws, washers, rivets, and other industrial fasteners--standard types only.....	.....	xxx	675,101	xxx	568,728
3494111	Bolts, threaded rods, lag screws, and studs (including nuts when nuts and bolts are sold as a unit).....	Thousand pounds.	768,124	199,457	941,843	202,152
	Nuts:					
3494113	Standard nuts (Hexagon or square; regular, heavy, or jam; finished, semifinished, or unfinished; including slotted or castle) (exclude sheet metal nuts).....	....do.....	145,494	51,580	11,458,685	90,207
3494115	Locknuts, aircraft (exclude sheet metal locknuts).....	....do.....	(NA)	19,875		
3494117	Locknuts, commercial (exclude sheet metal locknuts).....	....do.....	26,482	16,486		
3494119	Other nuts (including machine screw and stove bolt nuts, wing nuts, and all sheet metal nuts).....	....do.....	48,058	26,923		
	Screws:					
3494123	Cap screws, hexagon head, 1/4" diameter and larger	Thousand pieces	2,007,235	49,071	12,236,243	41,245
3494125	Other cap and set screws.....	....do.....	820,608	36,226		
3494133	Machine screws (including stove bolts).....	....do.....	13,410,168	58,460		
3494136	Tapping screws (thread forming and thread cutting screws, including sheet metal and hardened metallic drive screws).....	....do.....	8,536,019	34,722		
3494137	Wood and wood drive screws.....	Thousand gross..	59,632	26,773	21,047,962	65,391
	Washers:					
3494141	Plate (Flat).....	Thousand pounds.	94,927	18,777	96,473	18,493
3494145	Spring and lock.....	Thousand pieces.	7,801,492	17,147	10,301,848	18,243
	Rivets					
3494151	Aircraft rivets.....	Thousand pounds.	(NA)	19,457	192,596	41,550
3494153	7/16" and under (other than aircraft).....	....do.....	104,024	27,104		
3494157	1/2" and over (other than aircraft).....	....do.....	90,831	13,752		
3494181	Pins (Aircraft, straight, dowel, clevis, cotter, and miscellaneous patent).....	.....	xxx	9,185	xxx	15,539
3494198	Other standard fasteners (including toggle bolts, etc.).....	.....	xxx	24,386		
3494100	Bolts, nuts, screws, rivets, etc., not specified by kind.....	.....	xxx	25,720		
34942--	Specials-products other than standard type fasteners.....	.....	xxx	179,565		
3494212	Made on the same machines (headers, threaders and nut forming machines) that are used in the production of bolts, nuts, rivets, etc.....	.....	xxx	133,583	xxx	90,959
3494252	Made on machines other than headers, threaders and nut forming machines.....	.....	xxx	36,072	xxx	46,705
	Specials, not specified by kind.....	.....	xxx	9,910	xxx	...
3494000	Bolts, nuts, washers and rivets not specified by kind.....	.....	xxx	10,297	xxx	...

xxx Not applicable.

NA Not available.

¹Quantity in thousand pieces.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-34F-2

METAL FOIL INDUSTRY

(Industry Code 3497--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metal Foil Industry shipped products valued at \$276 million, an increase of 52 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 15 percent from 1954 to 1958 to a total of 7.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$97 million in 1958, an increase of 47 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE METAL FOIL INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3497)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.7	6.7	+15
Payroll.....	Million dollars...	43.1	28.7	+50
Production workers:				
Number.....	Thousands.....	5.7	5.6	+2
Man-hours.....	Millions.....	11.9	11.5	+3
Wages.....	Million dollars...	29.9	22.0	+36
Value added by manufacture, unadjusted ².....	..do.....	94.8	62.6	+51
Value added by manufacture, adjusted ³.....	..do.....	96.7	65.9	+47
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	180.3	118.7	+52
Value of shipments ⁵.....	..do.....	275.5	181.5	+52
Capital expenditures, new.....	..do.....	7.4	5.4	+37
Number of establishments with 20 or more employees ⁶	Number.....	46	32	+44

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

GROUP 35

The Metal Foil Industry includes establishments engaged primarily in the manufacture of aluminum, gold, silver, tin and other foil and leaf including converted metal foil. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Metal Foil Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metal Foil Industry amounted to \$275 million. Of this total, \$231 million were products primary to the industry, \$38 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$280 million of metal foil were shipped by all producers of these products. Of this total, \$231 million or 83 percent, were shipped by plants classified in Industry 3497, Metal Foil while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale and Service Trades. The 1956 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE METAL FOIL INDUSTRY (SIC Code 3497), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,654	43,067	5,708	11,906	29,906	94,825	96,734	275,463	7,377	46	6,713	62,604
Northeast and North Central.....	3,863	21,403	2,758	5,645	13,439	37,744	38,751	105,028	2,908	27	3,343	25,989
South Pacific.....	3,791	21,664	2,950	6,261	16,467	57,081	57,983	170,434	4,469	19	3,369	36,613

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF METAL FOIL AND LEAF SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Metal Foil and Leaf Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 pounds)	Value (\$1,000)	Quantity (1,000 pounds)	Value (\$1,000)
3497---	Metal foil and leaf, total.....	xxx	279,712	xxx	198,266
	Foil: ¹				
	Aluminum foil (under .006") made in rolling mills:				
3497011	Condenser foil.....	26,915	7,404	2145,354	69,874
3497015	All other plain foil.....	2137,996	96,581		
3497017	Foil in lamination.....	240,602	36,787		
3497021	Laminated foil made from purchased aluminum foil ²	12,225	17,497		
	Converted aluminum foil products--laminated and unlaminated (excluding specialty bags and lines): ³			165,678	120,844
3497031	Wrappers and wraps.....	37,445	43,436		
3497033	Foil containers.....	24,985	22,004		
3497039	All other converted foil products (including household and freezer foil).....	39,696	37,171		
3497047	Other foil, including composition (combination of two or more metals) ³	(NA)	5,074	xxx	4,322
3497051	Leaf:				
3497057	Gold leaf.....	xxx	4,713		
	Other leaf.....	xxx	4,704	xxx	3,226
3497000	Metal foil and leaf, not specified by kind	xxx	4,341		

xxx Not applicable.

NA Not available

¹Quantity figures are shown in terms of metal content.

²Differs from quantity data published in Facts for Industry Series M33-2, Aluminum Ingot and Mill Products and Magnesium Mill Products, in that no data are included in the plain foil figures for that quantity of plain foil which is produced and converted in the same establishment. As shown in the Facts for Industry report, net shipments of aluminum foil totaled 200 million pounds in 1958 and 153 million pounds in 1954.

³More detailed data on converted aluminum foil are available in Facts for Industry Series M34P, "Aluminum Foil Converted." This report contains data on poundages of aluminum foil converted by end use.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34F-3

SAFES AND VAULTS INDUSTRY

(Industry Code 3492—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Safes and Vaults Industry shipped products valued at \$60 million, an increase of 43 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 3 percent from 1954 to 1958 to a total of 3.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$40 million in 1958, an increase of 36 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SAFES AND VAULTS INDUSTRY: 1958 AND 1954
(Standard Industrial Classification Code 3492)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.5	3.4	+3
Payroll.....	Million dollars...	16.1	15.0	+7
Production workers:				
Number.....	Thousands.....	2.3	2.6	-11
Man-hours.....	Millions.....	4.6	5.1	-10
Wages.....	Million dollars...	10.8	10.3	+5
Value added by manufacture, unadjusted ².....	.....do.....	40.5	29.0	+40
Value added by manufacture, adjusted ³.....	.....do.....	40.3	29.6	+36
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	18.7	12.4	+51
Value of shipments ⁵.....	.....do.....	59.6	41.8	+43
Capital expenditures, new.....	.....do.....	.7	.7	0
Number of establishments with 20 or more employees ⁶	Number.....	13	10	+30

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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GROUP 35

The Safes and Vaults Industry includes establishments engaged primarily in the manufacture of safes and vaults (except concrete grave vaults--Industry 3271 Concrete Products) vault doors and linings, safe-deposit boxes and chests, and safe and locks. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Safes and Vaults Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Safes and Vaults Industry amounted to \$60 million. Of this total, \$42 million were products primary to the industry, \$12 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 78 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$43 million of safes and vaults were shipped by all producers of these products. Of this total, \$42 million, or 97 percent, were shipped by plants classified in Industry 3492, Safes and Vaults, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.—GENERAL STATISTICS FOR THE SAFES AND VAULTS INDUSTRY (S.I.C. CODE 3492), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	3,546	16,077	2,349	4,567	10,820	40,484	40,285	59,599	683	13	3,442	28,974
Northeast and North Central.....	3,273	14,667	2,181	4,227	10,062	38,478	38,229	55,354	621	9	3,207	27,521
Ohio.....	2,873	12,884	1,863	3,438	8,786	34,954	34,712	49,230	558	5	3,024	26,288
South and West.....	273	1,410	168	340	758	2,006	2,056	4,245	62	4	234	1,452

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF SAFES AND VAULTS SHIPPED BY ALL PRODUCERS IN UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Safes and Vaults Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3492—	Safes and vaults, total.....	xxx	43,024	xxx	33,969
	Safes and chests.....				
	Fire-resistive safes (Insulated): ¹				
3492013	One, two, and four-hour types.....	50,973	10,235	85,052	10,245
3492017	All other fire-resistive safes.....				
3492021	Burglary-resistive safes and chests: ¹				
	Reported with quantity.....	15,694	3,617	10,694	2,408
	Reported without quantity.....	xxx	625	...	...
3492041	Safe deposit, boxes:				
	Reported with quantity.....	291,403	7,038	480,382	6,887
	Reported without quantity.....	xxx	1,975	...	...
3492098	All other bank and security vaults and equipment (including bank security lockers and night depositories, and interior equipment for safes and chests).....	xxx	16,816	xxx	13,136
3492000	Safes and vaults, not specified by kind.....	xxx	2,718	xxx	1,293

xxx Not applicable.

¹Safes and chests are shown as fire-resistive or burglary-resistive depending on the primary purpose for which they are built.

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1958 Census of Manufactures

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March 1960

MC(P)-34F-4

STEEL SPRINGS INDUSTRY

(Industry Code 3493—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Steel Springs Industry shipped products valued at \$106 million, a decrease of 14 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 22 percent from 1954 to 1958 to a total of 5.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$44 million in 1958, a decrease of 13 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE STEEL SPRINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3493)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.5	7.1	-22
Payroll.....	Million dollars...	29.0	33.3	-13
Production workers:				
Number.....	Thousands.....	4.3	5.7	-25
Man-hours.....	Millions.....	8.2	11.4	-28
Wages.....	Million dollars...	20.7	24.5	-15
Value added by manufacture, unadjusted ².....	..do.....	42.7	50.2	-15
Value added by manufacture, adjusted ³.....	..do.....	44.2	50.8	-13
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	61.1	70.9	-14
Value of shipments ⁵.....	..do.....	105.6	122.9	-14
Capital expenditures, new.....	..do.....	1.4	36.1	-96
Number of establishments with 20 or more employees ⁶	Number.....	42	43	-2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Steel Springs Industry includes establishments engaged primarily in the manufacture of leaf springs, hot-wound springs and coiled flat springs. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Steel Springs Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products etc. The total value of shipments and other receipts of establishments classified in the Steel Springs Industry amounted to \$106 million. Of this total, \$86 million were products primary to the industry, \$13 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$133 million of steel springs were shipped by all producers of these products. Of this total, \$86 million, or 64 percent, were shipped by plants classified in Industry 3493, Steel Springs, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE STEEL SPRINGS INDUSTRY (S.I.C. CODE 3493) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,515	29,006	4,279	8,213	20,719	42,717	44,245	105,567	1,422	42	7,078	50,152
Middle Atlantic.....	2,041	10,735	1,600	3,050	7,874	15,614	15,249	35,212	559	15	2,615	16,567
New York.....	439	2,222	325	669	1,627	3,296	3,289	9,515	64	4	516	3,706
All Other Divisions....	3,474	18,271	2,679	5,163	12,845	27,103	28,996	70,355	863	27	4,463	33,584
Illinois.....	527	2,917	410	801	1,999	5,290	5,306	11,833	261	4	730	5,640
Michigan.....	917	4,991	716	1,385	3,804	7,461	7,327	20,023	247	5	1,888	16,260
California.....	376	1,924	267	551	1,252	1,755	3,197	6,580	45	3	307	1,488

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF STEEL SPRING SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Steel Springs Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (short tons)	Value (\$1,000)	Quantity (short tons)	Value (\$1,000)
3493---	Steel springs, total.....	xxx	133,143	xxx	129,593
	Helical springs, hot wound:				
	Automobile coil springs:				
3493011	Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....	47,642	13,887	36,745	9,612
3493013	Shipments to other customers.....	7,281	2,624	5,525	2,305
3493015	Locomotive and railroad car.....	22,831	7,133	18,456	4,985
3493019	Other helical springs, hot wound.....	5,596	3,375	15,560	5,151
3493031	Leaf springs:				
	Locomotive and railroad car.....	2,285	898	(¹)	(¹)
	Automotive (auto, truck, bus, trailer, etc.):				
3493051	Shipments to motor vehicle manufacturers.....	185,036	60,125	248,762	68,244
3493059	Shipments to other customers.....	30,676	12,828	32,809	12,679
3493061	Leaf springs for tractors, farm equipment and other heavy equipment.....	7,625	2,428	110,899	13,170
3493071	Flat springs made of sheet and strip.....	xxx	19,502	xxx	15,565
3493081	Torsion bar springs.....	xxx	1,097	xxx	2,074
3493098	Other steel springs, except wire.....	xxx	2,026	xxx	2,499
3493000	Steel springs, except wire, not specified by kind.....	xxx	7,220	xxx	3,309

xxx Not applicable.

¹Locomotive and railroad car leaf springs, are included with "Leaf springs for tractors, farm equipment, and other heavy equipment," product code 3493061.

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1958 Census of Manufactures

Industry and Product Reports

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March 1960

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SCREW-MACHINE PRODUCTS INDUSTRY

(Industry Code 3495—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Screw-Machine Products Industry shipped products valued at \$433 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 32.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$256 million in 1958, an increase of 5 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SCREW-MACHINE PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3495)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	32.2	35.0	-8
Payroll.....	Million dollars...	157.1	151.4	+4
Production workers:				
Number.....	Thousands.....	26.1	29.7	-12
Man-hours.....	Millions.....	53.1	61.0	-13
Wages.....	Million dollars...	114.7	112.6	+2
Value added by manufacture, unadjusted ².....	..do.....	255.0	246.9	+3
Value added by manufacture, adjusted ³.....	..do.....	256.0	243.6	+5
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	177.0	158.6	+12
Value of shipments ⁵.....	..do.....	433.2	406.5	+7
Capital expenditures, new.....	..do.....	14.2	11.9	+19
Number of establishments with 20 or more employees ⁶	Number.....	422	411	+3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Screw-Machine Products Industry includes establishments engaged primarily in the manufacture of automatic or hand operated screw-machine products from rod, bar, or tube stock of metal, fiber, plastics or other material. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Screw-Machine Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Screw-Machine Products Industry amounted to \$433 million. Of this total, \$383 million were products primary to the industry, \$20 million were products primary to other industries, and \$30 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$444 million of screw-machine products were shipped by all producers of these products. Of this total, \$383 million, or 86 percent, were shipped by plants classified in Industry 3495, Screw-Machine Products while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE SCREW-MACHINE PRODUCTS INDUSTRY (S.I.C. CODE 3495), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	32,229	157,088	26,118	53,130	114,688	254,982	255,979	433,186	14,184	422	35,009	246,886
New England.....	5,822	26,557	4,761	9,585	19,224	41,778	42,010	66,342	2,965	66	5,767	37,024
Massachusetts.....	1,824	8,310	1,530	3,124	6,097	12,392	12,471	20,174	734	25	1,869	11,237
Rhode Island.....	476	2,064	391	812	1,485	3,210	3,206	4,877	176	7	685	4,255
Connecticut.....	3,454	16,025	2,781	5,563	11,520	25,877	26,002	40,769	2,041	33	3,160	21,308
Middle Atlantic.....	5,583	24,613	4,652	9,293	18,786	40,334	40,858	67,076	2,006	88	5,701	37,034
New York.....	2,644	12,064	2,216	4,545	9,278	19,066	19,337	34,338	799	44	2,745	17,711
New Jersey.....	1,682	7,605	1,377	2,757	5,608	13,244	13,450	18,975	916	23	1,346	10,292
Pennsylvania.....	1,257	4,944	1,059	1,991	3,900	8,024	8,071	13,763	291	21	1,608	9,030
East North Central.....	15,858	81,399	12,799	26,248	59,449	130,968	130,916	234,514	5,766	205	18,679	140,645
Ohio.....	4,631	23,508	3,707	7,636	17,414	38,735	38,325	69,486	1,719	58	6,173	45,599
Indiana.....	1,455	6,836	1,236	2,522	5,463	11,530	11,535	20,229	399	20	1,512	10,337
Illinois.....	4,659	23,798	3,695	7,594	16,807	38,165	38,184	63,131	1,680	62	4,988	37,857
Michigan.....	4,351	23,635	3,534	7,281	17,159	36,912	37,224	72,467	1,624	53	5,073	40,843
Wisconsin.....	762	3,622	627	1,215	2,606	5,626	5,648	9,201	344	12	931	6,006
West North Central.....	2,022	9,522	1,587	3,181	6,434	15,516	15,520	23,867	713	22	1,546	8,611
Minnesota.....	529	2,606	459	1,001	2,217	4,483	4,481	6,787	352	8	705	3,865
Missouri.....	1,298	6,162	972	1,876	3,654	9,822	9,837	15,094	301	9	673	3,901
South Atlantic.....	276	1,121	234	441	884	1,981	1,953	4,041	105	3	260	1,419
West.....	2,353	12,489	1,831	3,825	8,885	22,172	22,183	33,400	2,534	31	2,846	20,969
California.....	2,083	11,321	1,655	3,500	8,141	19,709	19,762	29,667	2,457	26	2,471	18,398

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF SHIPMENTS OF SCREW-MACHINE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Screw-Machine Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of production (\$1,000)	
		1958	1954
3495---	Screw-machine products, total.....	443,860	424,762
3495012	Automotive.....	81,173	
3495022	Aircraft and ordnance.....	53,095	
3495042	Household appliances (including radio and television).....	41,058	
3495062	Machinery.....	35,791	424,762
3495098	All other screw machine products.....	145,093	
3495000	Screw-machine products, not specified by kind.....	87,650	

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P)-34F-6

COLLAPSIBLE TUBES INDUSTRY

(Industry Code 3496--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Collapsible Tubes Industry shipped products valued at \$45 million, an increase of 17 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 12 percent from 1954 to 1958 to a total of 3.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$25 million in 1958, an increase of 13 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE COLLAPSIBLE TUBES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3496)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.8	4.3	-12
Payroll.....	Million dollars...	16.1	14.9	+8
Production workers:				
Number.....	Thousands.....	3.4	3.9	-13
Man-hours.....	Millions.....	6.9	7.6	-9
Wages.....	Million dollars...	12.5	11.8	+6
Value added by manufacture, unadjusted ².....	..do.....	25.6	22.2	+15
Value added by manufacture, adjusted ³.....	..do.....	25.3	22.4	+13
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	19.1	15.7	+22
Value of shipments ⁵.....	..do.....	44.7	38.1	+17
Capital expenditures, new.....	..do.....	1.6	1.4	+14
Number of establishments with 20 or more employees ⁶	Number.....	20	18	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Collapsible Tubes Industry includes establishments engaged primarily in the manufacture of collapsible tubes, made of aluminum, tin, and other materials for use as containers for toilet preparations, adhesives, etc. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Collapsible Tubes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Collapsible Tubes Industry amounted to \$45 million. Of this total, \$37 million were products primary to the industry, \$4 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$37 million of collapsible tubes were shipped by all producers of these products. Of this total, \$37 million, or 100 percent, were shipped by plants classified in Industry 3496, Collapsible Tubes.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE COLLAPSIBLE TUBES INDUSTRY (S.I.C., CODE 3496), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	3,837	16,118	3,367	6,855	12,453	25,567	25,333	44,679	1,572	20	4,302	22,239
Northeast.....	2,442	10,417	2,121	4,202	7,763	15,566	15,310	28,326	761	13	2,895	16,709
New Jersey.....	1,481	6,752	1,276	2,553	4,936	10,662	10,400	20,747	580	9	1,661	10,167
All other divisions.....	1,395	5,701	1,246	2,653	4,690	10,001	10,023	16,353	811	7	1,407	5,530

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF COLLAPSIBLE TUBES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Collapsible Tubes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 gross)	Value (\$1,000)	Quantity (1,000 gross)	Value (\$1,000)
3496---	Collapsible tubes, total.....	xxx	37,214	xxx	34,129
3496011	Aluminum.....	4,035	21,339	3,393	16,443
3496012	Lead.....	1,992	9,429	2,665	11,222
3496013	Tin.....	746	3,902	739	3,326
3496029	Other (including tin-coated and tin-head alloy) and caps, spouts, etc. (except plastic).....	xxx	1,067	xxx	3,136
3496000	Collapsible tubes, not specified by kind.....	xxx	1,477		

xxx Not applicable.

DEPARTMENT OF COMMERCE

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-34F-7

METAL BARRELS, DRUMS, AND PAILS INDUSTRY

(Industry Code 3491--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metal Barrels, Drums, and Pails Industry shipped products valued at \$243 million, an increase of 8 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 14 percent from 1954 to 1958 to a total of 9.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$92 million in 1958, an increase of 7 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuel, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE METAL BARRELS, DRUMS, AND PAILS INDUSTRY IN UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3491)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.1	10.6	-14
Payroll.....	Million dollars...	50.4	48.5	+4
Production workers:				
Number.....	Thousands.....	7.2	8.7	-17
Man-hours.....	Millions.....	14.3	17.9	-20
Wages.....	Million dollars...	36.4	37.1	-2
Value added by manufacture, unadjusted ².....	..do.....	91.5	85.9	+7
Value added by manufacture, adjusted ³.....	..do.....	91.7	85.7	+7
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	150.9	137.7	+10
Value of shipments ⁵.....	..do.....	243.1	224.9	+8
Capital expenditures, new.....	..do.....	4.4	5.9	-25
Number of establishments with 20 or more employees ⁶	Number.....	70	63	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Metal Barrels, Drums, and Pails, Industry includes establishments engaged primarily in the manufacture of ferrous and nonferrous shipping barrels, drums, kegs, and pails. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Metal Barrels, Drums, and Pails Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metal Barrels, Drums, and Pails Industry amounted to \$243 million. Of this total, \$219 million were products primary to the industry, \$18 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$254 million of metal barrels, drums, and pails were shipped by all producers of these products. Of this total, \$219 million, or 86 percent, were shipped by plants classified in Industry 3491 Metal Barrels, Drums, and Pails, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

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1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE METAL BARRELS, DRUMS, AND PAILS INDUSTRY (S.I.C. CODE 3491), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,055	50,427	7,239	14,283	36,352	91,474	91,730	243,074	4,416	70	10,585	85,865
Northeast.....	2,757	14,375	2,196	4,209	10,407	26,418	26,119	71,732	(D)	21	2,056	18,438
New Jersey.....	1,174	7,213	915	1,884	5,257	12,736	12,614	34,277	(D)	8	869	8,945
North Central.....	3,650	21,283	2,961	5,891	15,275	34,525	34,426	82,679	1,899	22	4,089	30,889
Ohio.....	1,517	8,387	1,262	2,309	6,361	12,141	12,264	31,028	396	9	2,314	16,104
Illinois.....	1,876	11,670	1,484	3,188	7,970	19,641	19,506	45,111	1,465	10	1,452	12,305
South Atlantic.....	270	1,138	247	502	933	3,023	2,967	8,421	205	7	1,207	8,325
East South Central.....	354	1,631	273	583	1,130	3,300	3,713	9,534	164	5	306	3,002
Alabama.....	305	1,449	230	500	993	2,986	3,393	8,476	119	4	292	2,913
West South Central.....	1,122	6,507	885	1,773	4,732	14,752	15,062	46,922	441	10	1,265	12,242
Louisiana.....	509	2,882	432	879	2,191	6,350	6,262	19,095	356	5	428	5,511
Texas.....	571	3,422	427	843	2,451	8,023	8,468	26,802	85	4	836	6,730
West.....	902	5,493	677	1,325	3,875	9,456	9,443	23,786	127	5	1,661	12,967

¹ D Withheld to avoid disclosing figures for individual companies.² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)³ Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁵ For explanation see text under "Value of shipments."⁶ Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF METAL BARRELS, DRUMS, AND PAILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Metal Barrels, Drums, and Pails Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3491----	Metal barrels, drums, and pails, total.....	xxx	254,367	xxx	202,617
	Steel shipping packages, kegs, and pails (12 gallon capacity and under): ¹				
3491111	Reported in Census of Manufactures.....	xxx	80,229	68,698	54,771
	Reported on Monthly Form M34K.....	72,179	(NA)	69,827	(NA)
	Detailed figures by type of pail from monthly survey:				
3491115	Tapered pails.....	9,039			
3491119	Dome top pails.....	4,143			
	Other types, for sale and for own use.....	58,997			
	For sale.....	57,146			
3491121	1 to 2 gallon capacity.....	2,957			
3491125	Over 2 but not including 5 gallon capacity.....	3,564			
3491129	5 gallon capacity, 24 gauge and heavier.....	20,152			
3491131	5 gallon capacity, 26 gauge.....	23,261			
3491135	5 gallon capacity, 28 gauge and lighter.....	2,304	(NA)	69,827	(NA)
3491139	Over 5 gallon up to and including 7 gallon capacity, 11-1/4" diameter or less.....	3,303			
3491141	7 to 12 gallon capacity, diameters over 11-1/4".....	1,605			
	For own use.....	1,851			
3491121-35	1 to 5 gallon capacity.....				
3491139	Over 5 gallon up to and including 7 gallon capacity, 11-1/4" diameter or less.....	1,302			
3491141	7 to 12 gallon capacity, diameter over 11-1/4".....	549			
	Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels: ²				
3491210	Reported in Census of Manufacturers.....	xxx	162,375	33,075	143,854
	Reported on Monthly Form M34K.....	31,491	(NA)	32,552	(NA)
	Detailed data by size of container from monthly survey:				
	Heavy type.....	19,018	(NA)	22,051	(NA)
	Tight head liquid type.....	15,273			
	55 gallon capacity:				
3491211	16 gauge and heavier.....	767			
3491215	18 gauge.....	12,065			
3491219	19 gauge and lighter.....	493			
3491225	30 to 33 gallon capacity.....	1,036			
3491229	All other capacities.....	912	(NA)	22,051	(NA)
	Full open head type, total.....	3,745			
	55 gallon capacity and larger:				
3491231	18 gauge and heavier.....	2,527			
3491235	19 and 20 gauge.....	93			
3491239	All other capacities, 20 gauge and heavier.....	1,125			
	Light type.....	9,315	(NA)	10,069	(NA)
	For sale.....	7,178	(NA)	7,305	(NA)
	Welded side seam construction.....	3,276	(NA)	2,550	(NA)
3491241	Over 30 gallon capacity, 22 to 26 gauge.....	1,141			
3491245	30 gallon capacity and smaller, 22 to 26 gauge.....	1,546	(NA)	2,550	(NA)
3491249	All other capacities, 28 to 30 gauge.....	589			
3491251	Lock side seam construction.....	3,902	(NA)	4,755	(NA)
3491241-51	For own use.....	2,137	(NA)	2,764	(NA)
3491261	Grease drums.....	3,158	(NA)	3,433	(NA)
3491312	All other metal barrels (including beer barrels and parts for metal barrels and pails).....	xxx	10,137	xxx	3,992
3491000	Metal barrels, drums and pails, not specified by kind.....	xxx	1,626	...	...

NA Not available.

xxx Not applicable.

¹Steel shipping packages, kegs, and pails are defined as single-walled shipping containers with a range of capacity from 1 to 12 gallons inclusive, constructed of steel sheet of 29 gauge and heavier. This definition does not include tin cans (packers' cans, general line cans, and beer cans), terneplate oil containers, fluid milk shipping containers, ice cream cans, gas cylinders, beer barrels, reconditioned barrels and drums, or containers not commercially usable in the transportation of commodities.

²Steel shipping barrels and drums are defined as single-walled, cylindrical or bilged shipping containers with a range of capacity from 12 to 132 gallons constructed of steel. This definition does not include tin cans (packers' cans, general line cans and beer cans), terneplate oil containers, high and low pressure gas steel cylinders, fluid milk shipping containers, ice cream cans, or containers not commercially usable in the transportation of commodities.

³Represents 100 pound grease drums only.

GROUP 35

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35A-1

STEAM ENGINES AND TURBINES INDUSTRY

(Industry Code 3511—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Steam Engines and Turbines Industry shipped products valued at \$866 million, an increase of 91 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 36 percent from 1954 to 1958 to a total of 41.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$522 million in 1958, an increase of 87 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE STEAM ENGINES AND TURBINES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3511)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	41.1	30.2	+36
Payroll.....	Million dollars...	248.9	158.9	+57
Production workers:				
Number.....	Thousands.....	26.9	21.4	+26
Man-hours.....	Millions.....	52.8	44.8	+18
Wages.....	Million dollars...	158.0	109.7	+44
Value added by manufacture, unadjusted ².....	..do.....	548.5	295.4	+86
Value added by manufacture, adjusted ³.....	..do.....	522.3	279.7	+87
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	317.9	157.2	+102
Value of shipments ⁵.....	..do.....	865.6	452.6	+91
Capital expenditures, new.....	..do.....	19.8	18.4	+8
Number of establishments with 20 or more employees ⁶	Number.....	23	18	+28

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Steam Engines and Turbines Industry includes establishments engaged primarily in the manufacture of steam engines, steam turbines, water wheels, and water turbines. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Steam Engines and Turbines Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Steam Engines and Turbines Industry amounted to \$866 million. Of this total, \$548 million were products primary to the industry, \$280 million were products primary to other industries, and \$38 million were receipts for miscellaneous activities. The industry shipments of primary products represented 66 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$651 million of steam engines and turbines were shipped by all producers of these products. Of this total, \$548 million, or 84 percent, were shipped by plants classified in Industry 3511, Steam Engines and Turbines while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE STEAM ENGINES AND TURBINES INDUSTRY (S.I.C. CODE 3511), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All employees, number	Value added by manufac-ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	41,144	248,877	26,868	52,803	158,044	548,505	522,280	865,631	19,830	23	30,178	295,367
Northeast.....	34,926	214,164	23,131	45,652	137,885	491,115	465,811	777,753	17,994	17	27,593	271,025
All other regions.....	6,218	34,713	3,737	7,151	20,159	57,390	56,469	87,878	1,836	6	2,583	24,342

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF STEAM ENGINES AND TURBINES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Steam Engines and Turbines Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers					
		1958			1954		
		Quantity (number of units)	Total rated horsepower capacity (1,000 hp)	Value (\$1,000)	Quantity (number of units)	Total rated horsepower capacity (1,000 hp)	Value (\$1,000)
3511---	Steam engines and turbines.....	xxx	xxx	650,741	xxx	xxx	426,197
35111--	Steam and hydraulic turbines and parts; steam engines and parts.	xxx	xxx	211,797	xxx	xxx	108,894
	Mechanical drive steam turbines:						
3511121	Marine (including Navy).....	412	84	20,104	259	132	3,809
3511129	Other.....	2,471	674	19,533	3,853	743	16,184
	Steam-turbine gear units:						
3511131	Marine (including Navy).....	482	1,509	178,243	300	520	120,774
3511139	Other.....	376	93	13,983	481	81	12,755
3511141	Hydraulic turbines.....	78	3,330	39,594	120	2,843	34,507
3511111	Steam engines (reciprocating).....	xxx	xxx	50,340	79	22	877
3511153	Parts and accessories for hydraulic turbines.....				xxx	xxx	29,988
3511155	Parts and accessories for steam engines and steam turbines...						
			Total generating capacity (1,000 kilowatts)			Total generating capacity (1,000 kilowatts)	
35112--	Steam and hydraulic generator set units, including parts.....	xxx	xxx	438,944	xxx	xxx	317,303
	Generator set units (except motor-generator sets and generator set units for incorporation into land transportation equipment):						
	Steam turbine generator sets:						
3511212	Under 2,000 kw.....	229	149	22,470	209	88	12,132
3511214	2,000 kw-2,499 kw.....	22	61	3,851			
3511216	2,500 kw-49,999 kw.....	97	1,586	54,535	255	13,033	271,158
3511218-39	50,000 kw and over.....	125	18,304	320,443			
3511241	Water turbine (hydraulic) generator sets.....	xxx	xxx	37,645	{ }	xxx	xxx
3511245	Gas turbine generator sets.....						
3511251	Parts for generator set units (steam, water, gas etc.)....						

xxx Not applicable.

¹Includes the value of gears.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-35A-2

OIL-FIELD MACHINERY AND TOOLS INDUSTRY

(Industry Code 3532--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Oil-Field Machinery and Tools Industry shipped products valued at \$588 million, an increase of 8 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 4 percent from 1954 to 1958 to a total of 32,2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$337 million in 1958, an increase of 3 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE OIL-FIELD MACHINERY AND TOOLS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3532)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	32,2	33,7	-4
Payroll.....	Million dollars...	176,5	161,8	+9
Production workers:				
Number.....	Thousands.....	21,0	24,1	-13
Man-hours.....	Millions.....	42,2	49,6	-15
Wages.....	Million dollars...	103,1	102,3	+1
Value added by manufacture, unadjusted ².....	..do.....	337,6	318,7	+6
Value added by manufacture, adjusted ³.....	..do.....	337,1	327,5	+3
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	244,8	217,4	+13
Value of shipments ⁵.....	..do.....	588,2	542,5	+8
Capital expenditures, new.....	..do.....	18,6	18,2	+2
Number of establishments with 20 or more employees ⁶	Number.....	166	158	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resale for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Oil-Field Machinery and Tools Industry includes establishments engaged primarily in the manufacture of machinery and tools for use in oil and gas fields, or for drilling water wells. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Oil-Field Machinery and Tools Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Oil-Field Machinery and Tools Industry amounted to \$588 million. Of this total, \$471 million were products primary to the industry, \$44 million were products primary to other industries, and \$73 million were receipts for miscellaneous activities. The industry shipments of primary products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$498 million of oil-field machinery and tools were shipped by all producers of these products. Of this total, \$471 million, or 95 percent, were shipped by plants classified in Industry 3532, Oil-Field Machinery and Tools, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE OIL-FIELD MACHINERY AND TOOLS INDUSTRY (S.I.C. 3532), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	32,248	176,485	20,990	42,157	103,071	337,575	337,058	588,234	18,608	166	33,687	318,737
Northeast.....	1,496	7,539	1,114	1,939	5,075	10,077	12,458	20,652	1,475	8	1,989	10,205
Pennsylvania.....	1,431	7,206	1,063	1,840	4,824	9,417	11,801	19,494	1,472	7	1,950	9,765
East North Central.....	877	4,191	608	1,102	2,509	7,622	7,609	15,958	195	11	2,255	15,534
Ohio.....	524	2,440	376	667	1,513	5,120	4,905	8,920	108	5	1,801	12,157
West North Central.....	812	3,865	334	567	1,522	6,856	7,237	19,826	612	4	1,053	9,972
Kansas.....	686	2,984	252	422	1,156	4,244	4,758	15,141	500	2	616	4,373
South.....	24,046	131,645	15,969	32,786	79,002	259,726	260,135	448,671	14,643	111	22,561	230,900
Oklahoma.....	4,273	23,299	3,000	5,892	14,641	40,224	35,934	79,648	1,100	23	5,656	39,150
Texas.....	18,850	103,899	12,283	25,502	61,312	213,805	217,071	353,507	13,117	81	15,960	185,232
West.....	5,017	29,245	2,965	5,763	14,963	53,294	49,619	83,127	1,683	32	5,827	52,125
California.....	4,474	26,041	2,672	5,161	13,513	48,052	43,963	70,390	1,589	29	5,358	47,891

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF OIL-FIELD MACHINERY AND TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Oil-Field Machinery and Tools Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3532---	Oil-field machinery and tools.....	xxx	497,859	xxx	468,716
35321--	Oil and gas field drilling equipment (except portable drilling rigs and pumps).....	xxx	271,769	xxx	280,397
	Cable tool drilling surface machinery and equipment:				
3532111	Drilling machines and accessories.....	xxx	658	xxx	1,372
3532115	Other cable tool surface drilling equipment (include rig irons, wheels, reels, beams, pitmans, etc.).....			xxx	1,762
	Cable tool drilling subsurface equipment:				
3532121	Drilling bits, jars, sockets.....	xxx	10,830	xxx	5,476
3532123	Fishing and specialty tools.....	xxx	573	xxx	2,282
3532125	Other cable tool subsurface equipment.....	xxx	244	xxx	461
	Rotary drilling surface machinery and equipment:				
3532131	Blocks, crown and traveling.....	(NA)	1,616	xxx	1,724
3532132	Draw works and accessories.....	165	14,904	283	15,968
3532134	Rotary tables.....	208	1,430	482	2,131
3532135	Elevators, spiders, slips, hooks, links, and connectors.....	xxx	4,437	xxx	6,181
3532136	Swivels and accessories.....	xxx	1,447	xxx	2,228
3532137	Well control equipment (blow-out preventers, etc.).....	xxx	10,870	xxx	8,966
3532139	Other rotary drilling surface machinery and equipment.....	xxx	11,768	xxx	16,261
	Rotary drilling subsurface equipment:				
3532141	Bits.....	(NA)	116,149	(NA)	129,844
3532142	Reamers.....	xxx	6,456	xxx	1,078
3532143	Coring equipment.....	xxx	4,658	xxx	6,296
3532144	Tool joints, subs, and connectors.....	xxx	17,913	xxx	16,852
3532145	Drill collars.....	10,325	9,169	11,740	8,533
3532147	Fishing and cutting tools.....	xxx	7,024	xxx	5,421
3532149	Other subsurface rotary drilling equipment (including Kelly joints).....	xxx	5,765	xxx	2,041
	Cementing, floating, guiding, and shoe equipment:				
3532151	Guide shoes, float collars, and combination guide and float shoes.....	xxx	6,760	xxx	9,426
3532155	Other cementing equipment.....	xxx	18,873	xxx	25,840
3532161	Parts for oil and gas field drilling equipment, sold separately (except parts for portable drilling rigs).....	xxx	13,761	xxx	10,254
3532198	Other oil and gas field drilling equipment, except portable (specify kind).....	xxx	353		
3532100	Oil and gas field drilling equipment (except portable drilling rigs and pumps) not specified by type.....	xxx	6,111	xxx	...
35322--	Other oil and gas field machinery and tools including water well drilling equipment and portable drilling rigs.....	xxx	216,992	xxx	188,319
	Portable drilling rigs, permanently mounted on trucks or trailers:				
	Oil and gas field:				
3532211	Cable tool.....	235	5,226	223	2,972
3532213	Rotary rigs.....	275	11,837	342	7,865
	Water well and blast hole:				
3532215	Cable tool.....	324	2,781	1,181	7,048
3532217	Rotary rigs.....	234	6,006	203	5,249
3532221	Derricks, oil and gas field, substructures, and accessories—regular and portable..	(NA)	2,190	495	8,607
3532231	Well surveying machinery and equipment.....	xxx	1,917	xxx	8,766
	Production machinery and equipment:				
	Flowing well equipment, surface and subsurface:				
3532241	Christmas tree assemblies.....	xxx	16,102	xxx	13,984
3532243	Casing and tubing heads and supports.....	xxx	13,128	xxx	3,764
3532245	Chokes, manifolds and other accessories.....	xxx	13,926	xxx	6,511
3532251	Rodless oil lifting machinery and equipment (other than pumps).....	xxx		xxx	2,366
	Rod lifting machinery and equipment, surface (including pumps when they are component of a complete assembly):				
3532253	Pumping units and accessories (include back crank equipment).....	11,962	39,432	17,890	40,745
3532255	Other surface rod lifting machinery and equipment.....	xxx	1,748	xxx	2,002
3532257	Rod lifting equipment, subsurface, except pumps.....	12,379,520	21,365	12,722,565	22,351
	Other production machinery and equipment:				
3532261	Packers.....	xxx	10,000	xxx	6,849
3532265	Screens, tubing, catchers, etc.....	xxx	4,959	xxx	8,621
3532271	Oil and gas separating, metering, and treating equipment (report number of separators shipped in column (D)).....	(NA)	11,472	xxx	8,234
3532281	Parts for oil and gas field machinery and tools, sold separately (including parts for portable drilling rigs but excluding parts for other drilling equipment).....	xxx	10,102	xxx	32,385
3532298	Other oil and gas field machinery and tools (not specified by type).....	xxx	44,801		
3532000	Oil-field machinery and tools, not specified by type.....	xxx	9,098	xxx	...

NA Not available.

xxx Not applicable.

¹Represents number of sucker rods.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35A-3

TRACTORS INDUSTRY

(Industry Code 3521—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Tractors Industry shipped products valued at \$1,636 million, an increase of 30 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 60,3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$773 million in 1958, an increase of 52 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE TRACTORS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3521)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	60.3	64.7	-7
Payroll.....	Million dollars...	312.8	287.1	+9
Production workers:				
Number.....	Thousands.....	44.4	49.5	-10
Man-hours.....	Millions.....	80.8	95.3	-15
Wages.....	Million dollars...	214.5	206.0	+4
Value added by manufacture, unadjusted ².....	...do.....	780.3	516.5	+51
Value added by manufacture, adjusted ³.....	...do.....	773.3	509.4	+52
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	840.8	726.1	+16
Value of shipments ⁵.....	...do.....	1,635.7	1,255.7	+30
Capital expenditures, new.....	...do.....	36.4	51.5	-29
Number of establishments with 20 or more employees ⁶	Number.....	66	74	-11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Tractors Industry includes establishments engaged primarily in the manufacture of wheel type and track-laying tractors, garden tractors, and parts and attachments for tractors. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Tractors Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products etc. The total value of shipments and other receipts of establishments classified in the Tractors Industry amounted to \$1,636 million. Of this total, \$1,287 million were products primary to the industry, \$272 million were products primary to other industries, and \$77 million were receipts for miscellaneous activities. The industry shipments of primary products represented 83 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,392 million of tractors were shipped by all producers of these products. Of this total, \$1,287 million, or 92 percent, were shipped by plants classified in Industry 3521, Tractors, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE TRACTORS INDUSTRY (S.I.C. CODE 3521) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	60,258	312,767	44,369	80,818	214,540	780,328	773,289	1,635,743	36,377	66	64,742	516,484
Northeast.....	1,279	5,753	774	1,345	3,160	11,639	11,702	21,421	80	4	1,276	4,879
East North Central.....	41,823	215,125	30,046	54,187	143,175	557,478	553,053	1,033,371	24,921	36	49,041	411,087
Ohio.....	1,778	9,443	1,288	2,396	6,140	15,476	20,231	43,956	(D)	8	1,264	7,010
Indiana.....	1,333	6,120	981	2,030	4,237	9,736	9,958	26,019	428	4	343	1,104
Illinois.....	26,180	132,916	19,628	33,910	90,308	395,119	385,888	756,280	16,892	10	33,538	291,263
Michigan.....	2,695	15,565	1,899	3,627	9,949	51,320	50,085	143,213	2,779	3	3,533	23,813
Wisconsin.....	9,837	51,081	6,250	12,224	32,541	85,827	86,891	240,751	2,947	11	10,361	87,896
West North Central.....	12,320	67,769	9,735	18,340	50,513	143,917	142,431	280,666	6,132	15	10,112	70,272
Iowa.....	10,709	60,845	8,488	16,049	45,131	124,339	122,769	242,727	6,014	7	7,969	53,616
South.....	4,585	23,017	3,638	6,575	16,967	49,091	48,308	99,984	5,078	8	4,078	28,430
West.....	251	1,103	176	371	725	2,344	1,936	7,333	166	3	233	1,814

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF TRACTORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Tractors Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954	
		Production for all purposes (number of units)	Total shipments including interplant transfers		Total shipments including interplant transfers	
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3521--	Tractors, total.....	xxx	xxx	1,391,607	xxx	1,101,102
	As reported in the Census of Manufactures.....	xxx	xxx	1,302,903	xxx	1,031,333
	As reported on Census Forms MA-35A, MA-35D, and MA-35T.....	xxx	xxx	1,300,389	xxx	xxx
	Wheel tractors (except contractors' off-highway type) ² , garden tractors and motor tillers.....	241,269	239,161	494,131	253,673	396,466
	9-34 belt hp.....	50,894	47,675	70,521	135,666	161,147
	35-39 belt hp.....	44,075	45,377	80,391		
	40-49 belt hp.....	54,502	50,822	103,201		
	50-54 belt hp.....	69,211	41,382	85,442	32,908	80,237
	55-59 belt hp.....		30,998	89,165		
	60 belt hp. and over.....		22,907	65,411		
	Wheel tractors, contractors' off-highway type, total ³	xxx	4,088	85,480	3,019	46,801
	By type:					
	2 wheel.....	xxx	2,824	57,828	3,019	46,801
	4 wheel.....	xxx	1,264	27,652		
	By horsepower rating:					
	Under 170 brake hp.....	xxx	695	8,529	3,019	46,801
	170-249 brake hp.....	xxx	1,254	22,639		
	250 brake hp. and over.....	xxx	2,139	54,312		
	Garden tractors and motor tillers, total.....	224,266	227,073	26,492	191,235	24,844
	Garden tractors (except motor tillers), total.....	50,918	52,583	10,830	116,153	17,585
	Riding type, total.....	13,661	12,643	3,724	7,051	2,335
	Under 6 engine hp.....	6,395	6,426	1,504	2,665	681
	6 and under 8 engine hp.....	5,377	4,304	1,588	2,996	1,019
	8 engine hp. and over.....	1,889	1,913	632	1,390	535
	Walking type (except riding attachments), total.....	37,257	39,940	7,106	109,102	15,248
	2 engine hp. and under.....	2,807	2,664	249	35,607	3,635
	Over 2 engine hp. but not over 6 engine hp.....	27,632	30,768	5,484	73,495	11,613
	Over 6 engine hp.....	6,818	6,508	1,373		
	Motor tillers, total.....	173,348	174,490	15,662	75,082	7,261
	2 engine hp. and under.....	21,904	22,444	1,964	51,949	4,428
	Over 2 engine hp.....	151,444	152,046	13,698	23,133	2,833
	Tracklaying tractors ⁴	24,231	28,045	266,425	40,374	267,918
	Under 50 drawbar hp.....	13,073	11,673	37,521	23,798	94,186
	50-74 drawbar hp.....	4,443	4,432	30,046		
	75-99 drawbar hp.....	999	3,274	36,732		
	100-154 drawbar hp.....	5,716	4,404	65,736	16,576	175,732
	155 drawbar hp. and over.....		4,262	96,390		
	Parts and attachments for wheel tractors (except contractors' off-highway type, garden tractors and motor tillers).....	xxx	xxx	163,590	xxx	112,547
	Attachments.....	xxx	xxx	53,814	xxx	31,464
	Parts (for replacement and repair).....	xxx	xxx	109,776	xxx	81,083
	Parts and attachments for wheel tractors (contractors' off-highway type).....	xxx	xxx	35,360	xxx	18,188
	Attachments.....	xxx	xxx	2,595	xxx	1,445
	Parts (for replacement and repair).....	xxx	xxx	32,765	xxx	16,743
	Parts and attachments for garden tractors and motor tillers.....	xxx	xxx	12,774	xxx	13,128
	Attachments, total.....	xxx	xxx	9,162	xxx	9,705
	Except riding attachments for walking type.....	xxx	xxx	8,978	xxx	9,366
	Riding attachments for walking type.....	xxx	xxx	184	xxx	330
	Parts, total.....	xxx	xxx	3,612	xxx	3,423
	Parts and attachments for tracklaying tractors.....	xxx	xxx	216,137	xxx	151,451
	Attachments.....	xxx	xxx	16,493	xxx	18,837
	Parts (for replacement and repair).....	xxx	xxx	199,644	xxx	132,614

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF TRACTORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Production for all purposes (number of units)	Total shipments including interplant transfers		Total shipments including interplant transfers	
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3521581	Tractors—Continued Parts sold to other plants producing wheel tractors (except contractors' off-highway type, garden tractors and motor tillers).....	xxx	xxx	60,714	xxx	53,566
3521861	Parts sold to other plants producing tracklaying tractors and contractors' off-highway type wheel tractors.....	xxx	xxx	24,058	xxx	16,203
3521000	Tractors and parts, not specified by kind.....	xxx	xxx	3,932	xxx	xxx

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on Census Annual Forms MA-35A, M-35D, and M-35T. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting generally to less than 1 percent at the industry level and not more than five percent at the class of product level. These variations were due primarily to the following reasons:

- a. Use of different reporting periods (calendar year vs. fiscal year.)
- b. Use of different bases for reporting value (company sales vs. factory production.)
- c. Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the annual survey.
- d. Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.

²The horsepower ratings for these tractors are based on the Nebraska test corrected maximum belt horsepower.

³Represents wheeled tractors designed primarily for operation on natural terrain, such as on highway or public-works construction projects or on strip mining operations, and of such size or weight as to be restricted by State laws or regulations from operating on public highways. Does not include "truck-type" wheel tractors.

⁴The horsepower ratings for these tractors are based on maximum corrected drawbar horsepower. Data for 1958 exclude those crawler tractors produced as components of complete tractor-shovel-loaders. In 1958 a total 7,501 such tractor components were reported. Of this total 3,497 were rated at under 50 drawbar horsepower and 4,004 at 50 drawbar horsepower and over.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

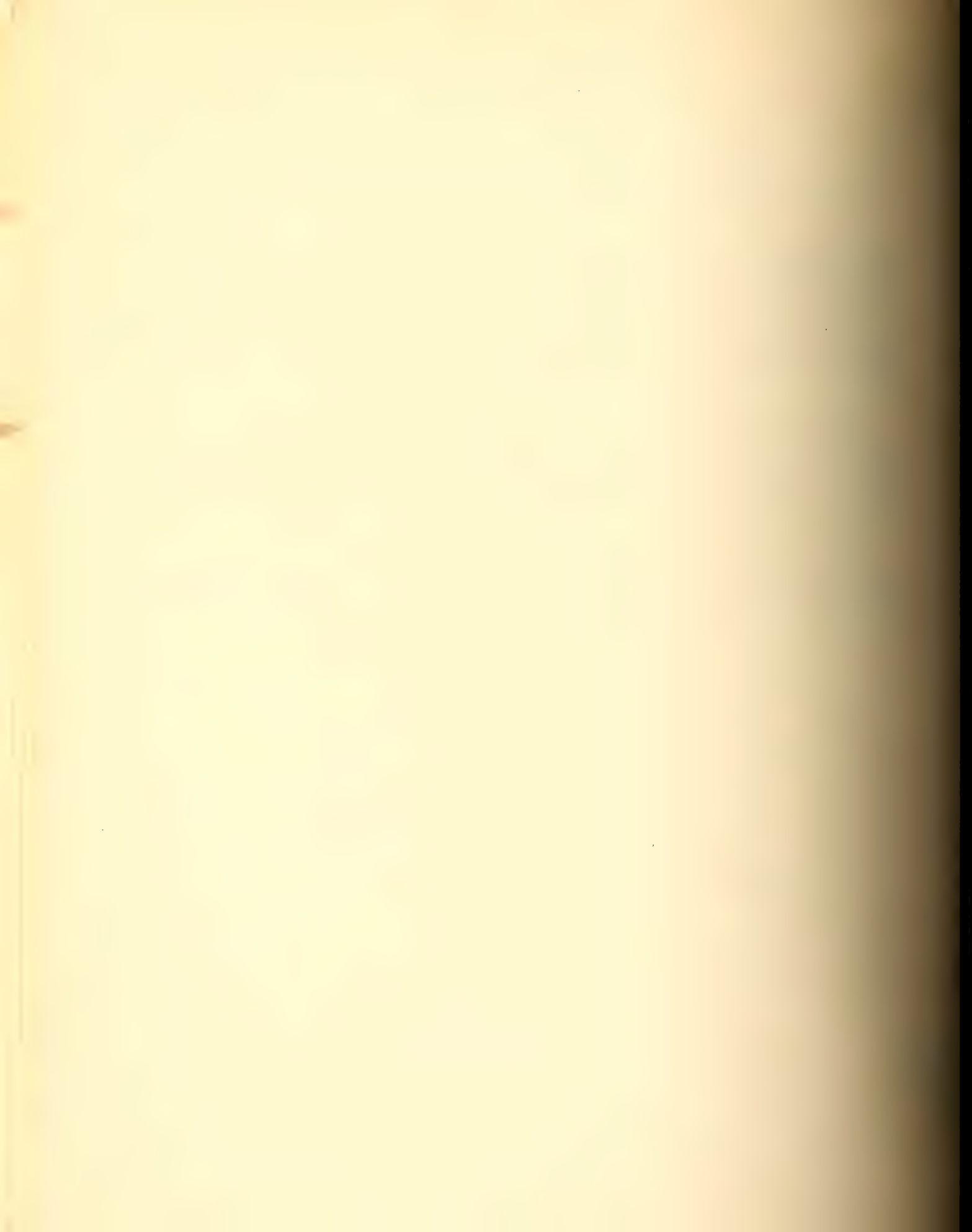
VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.





1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-35A-4

FARM MACHINERY (EXCEPT TRACTORS) INDUSTRY

(Industry Code 3522--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Farm Machinery (Except Tractors) Industry shipped products valued at \$1,520 million, an increase of 33 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 2 percent from 1954 to 1958 to a total of 75.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$690 million in 1958, an increase of 31 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE FARM MACHINERY (EXCEPT TRACTORS) INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3522)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	75.6	74.4	+2
Payroll.....	Million dollars...	372.2	315.0	+18
Production workers:				
Number.....	Thousands.....	55.7	56.0	-1
Man-hours.....	Millions.....	109.7	109.8	...
Wages.....	Million dollars...	248.4	217.7	+14
Value added by manufacture, unadjusted ².....	..do.....	693.7	533.9	+30
Value added by manufacture, adjusted ³.....	..do.....	689.9	526.6	+31
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	819.6	603.6	+36
Value of shipments ⁵.....	..do.....	1,520.5	1,146.8	+33
Capital expenditures, new.....	..do.....	28.1	24.6	+14
Number of establishments with 20 or more employees ⁶	Number.....	447	397	+13

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Farm Machinery (Except Tractors) Industry includes establishments engaged primarily in the manufacture of agricultural machinery and equipment (except tractors) for use in the preparation or maintenance of the soil, planting and harvesting of the crop, preparing crops for market or for use in performing other agricultural operations and processes. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Farm Machinery (Except Tractors) Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Farm Machinery (Except Tractors) Industry amounted to \$1,520 million. Of this total, \$1,313 million were products primary to the industry, \$137 million were products primary to other industries, and \$70 million were receipts for miscellaneous activities. The industry shipments of primary

products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,422 million of farm machinery were shipped by all producers of these products. Of this total, \$1,313 million, or 92 percent, were shipped by plants classified in Industry 3522, Farm Machinery (Except Tractors), while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE FARM MACHINERY (EXCEPT TRACTORS) INDUSTRY (S. I. C. CODE 3522) BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	75,558	372,186	55,719	109,667	248,413	693,700	689,896	1,520,458	28,120	447	74,376	533,886
New England.....	250	1,067	194	448	765	2,151	2,349	5,434	106	2	323	1,708
Middle Atlantic.....	6,374	32,329	4,051	8,225	19,194	73,340	69,246	140,835	1,825	37	6,642	60,382
New York.....	2,460	11,736	1,563	2,944	6,509	21,516	19,034	44,435	562	16	3,525	24,010
New Jersey.....	322	1,389	232	445	854	2,917	2,810	5,303	222	6	233	2,120
Pennsylvania.....	3,592	19,204	2,256	4,836	11,831	48,907	47,402	91,097	1,041	15	2,883	34,452
East North Central.....	38,320	197,771	28,452	55,053	134,231	364,713	361,920	805,790	13,299	161	41,035	286,089
Ohio.....	4,900	23,545	3,783	7,632	15,893	42,432	40,238	108,151	1,807	32	4,331	29,261
Indiana.....	4,221	20,815	2,919	5,494	12,883	39,134	38,697	89,446	1,382	26	6,513	35,313
Illinois.....	22,248	119,040	16,772	31,971	83,056	216,943	221,125	458,258	8,365	63	21,528	149,120
Michigan.....	2,244	11,405	1,609	3,137	7,492	19,578	17,084	51,313	485	14	3,201	31,479
Wisconsin.....	4,707	22,966	3,369	6,819	14,907	46,626	44,776	98,622	1,260	26	5,461	40,914
West North Central.....	17,734	85,507	13,366	26,862	58,227	155,932	158,169	357,978	6,869	119	14,509	105,908
Iowa.....	9,569	49,564	7,358	14,463	34,733	77,509	82,273	171,598	3,933	49	8,094	56,890
Nebraska.....	1,481	6,126	1,058	2,289	4,001	13,020	13,347	29,629	580	14	663	4,174
South.....	8,795	35,167	6,679	12,583	22,723	63,572	63,464	138,857	3,748	77	8,049	50,939
Virginia.....	282	967	246	527	748	1,775	1,980	4,353	156	5	432	1,985
North Carolina.....	1,289	4,343	1,100	2,275	3,052	6,534	6,692	18,604	337	7	831	4,071
Tennessee.....	2,371	12,309	1,647	2,878	7,843	21,851	21,567	37,788	(D)	5	2,685	20,211
Louisiana.....	305	1,229	227	502	834	1,778	2,106	5,322	91	3	241	1,086
West.....	4,085	20,345	2,977	6,496	13,273	33,992	34,748	71,564	2,273	51	3,815	28,658
California.....	2,835	14,848	2,004	4,440	9,394	23,577	24,089	50,207	1,473	33	2,812	21,047

¹ D Withheld to avoid disclosing figures for individual companies.² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)³ Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁵ For explanation see text under "Value of shipments."⁶ Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Farm Machinery (Except Tractors) Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including		interplant transfers	
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3522--	Farm machinery (except tractors), total.....	xxx	xxx	1,421,518	xxx	1,060,306
35221- 35226 35228- 35229 (part)	As reported on the Census of Manufactures.....	xxx	xxx	1,038,446	xxx	1,060,306
	As reported on Census Annual Form #A-35A.....	xxx	xxx	1,004,098	xxx	xxx
	Plows and listers, total.....	xxx	xxx	74,086	xxx	66,506
	Woldboard plows:					
	Horse drawn.....	16,633	17,008	235	39,998	479
	Tractor drawn, 1-way:					
	1-bottom.....	2,047	2,163	55	11,591	1,766
	2-bottom.....	5,557	4,894	1,044		
	3-bottom.....	20,559	20,396	6,301		
	4-bottom.....	14,556	14,521	6,262		
	5-bottom and larger.....	3,567	3,449	2,136	9,168	3,329
	Tractor drawn, 2-way:					
	2-bottom, 1 furrow.....	...	...	...	2,660	892
	4-bottom, 2 furrow.....	1,412	1,290	539		
	Mounted, 1-way:					
	1-bottom.....	2,957	3,047	182	4,958	232
	2-bottom.....	19,896	22,051	2,840	36,107	3,802
	3-bottom.....	26,048	31,338	6,861	29,121	5,154
	4-bottom and larger.....	8,709	11,087	3,628		
	Mounted, 2-way.....	3,930	4,252	1,415	3,317	584
	Disc plows, drawn:					
	1-, 2-, and 3-disc.....	2,876	3,133	577	8,145	1,441
	4-disc and larger.....	2,325	2,544	1,749	5,854	2,683
	Disc plows, mounted:					
	1- and 2-disc.....	1,204	1,658	290	9,786	1,682
	3- disc and larger.....	3,398	2,975	1,014		
	One-way disc plows or tillers:					
	Width of cut under 5 feet.....	827	1,014	277	3,330	503
	Width of cut 5 feet and larger.....	4,496	4,754	2,785	6,286	2,773
	Subsoilers (deep tillage).....	7,750	7,902	1,925	15,520	2,184
	Terracing and ditching plows.....	4,071	3,943	634	7,546	794
	Rotary-tiller plows, field type.....	3,366	3,477	1,037	7,026	905
	Other plows.....					
	Listers, with or without planting attachments.....	15,140	12,969	2,367	6,191	615
	Attachments for plows and listers, except planting attachments.....	xxx	xxx	7,301	xxx	7,148
	Plow shares (quantity in thousands of pounds).....	359,580	38,128	9,923	40,308	9,268
	Parts for plows and listers, except plow shares.....	xxx	xxx	12,709	xxx	14,188
	Plows, listers, including parts and attachments, not specified by type.....	xxx	xxx	xxx	xxx	1,168
	Harrow, rollers, pulverizers, and stalk cutters, total.....	xxx	xxx	92,054	xxx	70,605
	Harrow:					
	Spike-tooth harrow sections.....	136,521	140,410	3,616	242,483	4,528
	Spring-tooth harrow sections.....	74,211	75,111	2,828	93,766	2,398
	Disc harrows:					
	Single (2 gang):					
	Drawn.....	2,476	3,148	680	8,009	1,469
	Mounted.....	3,559	3,733	618	7,528	720
	Tandem (4 gang):					
	Drawn:					
	Wheel type.....	57,018	56,897	24,542	32,426	11,016
	Other.....	10,669	10,718	2,832	47,743	9,497
	Mounted.....	21,938	21,465	4,004	28,024	3,924
	Offset:					
	Drawn:					
	Wheel type.....	5,823	5,789	3,169	2,570	1,217
	Other type.....	6,920	7,001	4,973	9,741	3,583
	Mounted.....	3,186	3,485	851	2,129	382
	Brush and bog.....	1,055	1,212	229	6,509	1,240
	Other harrows.....	3,473	3,550	591		

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers		Quantity (number of units)	Value (\$1,000)
			Quantity (number of units)	Value (\$1,000)		
	Farm machinery (except tractors)—Continued As reported on Census Annual Form NA-35A—Continued					
	Barrows, rollers, pulverizers, and stalk cutters—Continued					
	Soil pulverizers, packers, and land rollers.....	13,123	12,516	2,637	18,750	3,186
	Stalk cutters (ground driven).....	974	951	285	12,705	2,896
	Stalk shredders, and stalk cutters, or rotary mowers (power take-off driven).....	53,957	52,259	16,145	14,844	4,968
	Blade terracers or scrapers (farm size):					
	Wheel type.....	3,698	3,703	2,155	11,457	2,221
	Other.....	33,775	33,684	2,992	13,103	1,045
	Land levelers.....	5,616	5,456	2,502		
	Other rollers, pulverizers, and similar equipment.....	4,372	4,479	949	6,395	2,095
	Attachments.....	xxx	xxx	4,737	xxx	2,970
	Parts.....	xxx	xxx	10,619	xxx	9,773
	Barrows, rollers, pulverizers and stalk cutters including parts and attachments, not specified by kind.....	xxx	xxx	xxx	xxx	1,477
	Planting, seeding and fertilizing equipment, total.....	xxx	xxx	101,019	xxx	93,593
	Corn planters:					
	Drawn:					
	1-row and 2-row.....	15,649	16,647	1,227	21,207	2,283
	3-row and larger.....	31,512	29,531	10,786	21,078	5,939
	Mounted:					
	1-row and 2-row.....	11,803	14,623	1,467	15,408	1,545
	3-row and larger.....	592	719	217		
	Corn and cotton planters:					
	Drawn.....	3,093	3,127	269	10,271	1,270
	Mounted:					
	1-row and 2-row.....	19,399	18,254	1,544	18,540	1,804
	3-row and larger.....	2,474	2,633	862	2,807	741
	Lister planting attachment units.....	(D)	707	128	3,788	862
	Potato planters, drawn or mounted.....	1,030	950	534	1,441	582
	Transplanters, drawn or mounted.....	7,477	7,598	1,463	8,733	1,407
	Grain drills, including legume planters:					
	Fertilizer.....	13,675	12,826	6,026	12,591	4,055
	Plain.....	10,817	10,310	3,733	13,769	4,902
	Broadcast seeders:					
	Hand-type.....	125,421	118,600	983	125,723	1,288
	End-gate, mounted, and drawn.....					
	Fertilizer distributors, drawn or mounted:					
	Dry.....	34,484	28,357	3,804	294,886	9,442
	Liquid.....	1,077	1,024	438		
	Anhydrous ammonia.....	2,260	2,239	1,196		
	Lime spreaders.....	3,026	3,654	792	8,946	1,413
	Manure spreaders:					
	2-wheel:					
	Power drive.....	23,864	24,344	10,611	13,487	5,717
	Ground drive.....	32,781	35,156	12,434	40,352	11,135
	4-wheel.....	(D)	646	207	2,144	804
	Loaders, manure and general utility (except hay, beet, and sugar cane loaders):					
	Front mounted.....	38,187	38,205	10,803	48,376	13,941
	Rear mounted.....	2,447	2,717	922	1,794	627
	Other planting, seeding, and fertilizing machinery.....	xxx	xxx	4,901	xxx	2,843
	Attachments.....	xxx	xxx	10,133	xxx	7,329
	Parts.....	xxx	xxx	15,539	xxx	10,492
	Planting, seeding, and fertilizing machinery, including parts and attachments, not specified by kind.....	xxx	xxx	xxx	xxx	3,172
	Sprayers and dusters, total.....	xxx	xxx	40,519	xxx	37,899

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers			Value (\$1,000)
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	
	Farm machinery (except tractors)—Continued As reported on Census Annual Form NA-35A—Continued Sprayers and dusters—Continued					
	Power sprayers:					
	Plunger-type pump, except self-propelled:					
	Under 4 gallons per minute:					
	Skid mounted.....	1,214	1,283	337		
	Wheel mounted.....	8,045	8,357	1,245		
	4 GPM and under 8 GPM:					
	Field and row crop:					
	Direct PTO tractor mounted.....	3,374	3,441	531		
	Except tractor mounted.....	5,217	5,245	2,863		
	Other types.....	1,120	1,175	524		
	8 GPM and over:					
	Field and row crop:					
	Direct PTO tractor mounted.....	2,757	2,694	656		
	Except tractor mounted.....	1,630	1,585	856		
	Other types.....	5,022	4,704	1,700		
	Other than plunger-type pump, except self-propelled:				74,461	14,450
	Field and row crop—direct PTO tractor mounted.....	48,815	42,900	4,115		
	Air blast type:					
	Field and row crop:					
	36 hp. and under.....		(D)	280		
	Over 36 hp.....			645		
	Orchard and general purpose:					
	36 hp. and under.....	235	218	252		
	Over 36 hp.....	894	893	2,373		
	Air blast blower adapter.....					
	Other types.....	1,664	1,697	891		
	Self-propelled sprayers.....	2,205	2,144	2,550		
	Hand sprayers, agricultural (except flame):					
	Under 1 gallon.....	4,454,109	4,711,495	2,592		
	1 gallon and over:					
	Compressed air or gas.....	904,846	927,873	5,649	13,072,074	9,215
	Knapsack (liquid pump).....	41,733	42,964	630		
	Wheelbarrow.....	6,798	6,495	191		
	Flame sprayers, hand.....	36,466	37,269	288	21,304	556
	Spray pumps:					
	Power driven, plunger type.....					
	Power driven, except plunger type.....	23,868	23,856	1,327	25,247	1,330
	Hand driven.....	95,867	97,606	449	36,164	341
	Dusters:					
	Power:					
	Engine-driven.....	330	357	157		
	Tractor power take-off.....	5,535	5,307	665	8,733	1,244
	Traction, all types.....	1,683	1,566	195	1,945	205
	Hand type:					
	Crank or knapsack.....	14,918	17,016	293	26,426	389
	Plunger type.....	317,931	358,243	397	630,025	808
	Attachments.....	xxx	xxx	1,349	xxx	1,203
	Parts.....	xxx	xxx	6,799	xxx	7,174
	Other sprayers and dusters.....					
	Sprayers and dusters, including parts and attachments not specified by kind.....	xxx	xxx	xxx	xxx	1,180

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers			
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Farm machinery (except tractors)—Continued As reported on Census Annual Form MA-35A—Continued					
	Harvesting machinery, total.....	xxx	xxx	311,916	xxx	252,566
	Combines (harvester-threshers):					
	Pull type:					
	6 feet and under.....	6,574	6,745	7,485	25,028	24,578
	Over 6 feet and under 9 feet.....	14,464	14,048	19,009	10,467	11,609
	9 feet and under 12 feet.....				1,957	4,010
	12 feet and over.....	1,132	1,271	3,234	2,211	5,090
	Self-propelled:					
	Under 12 feet.....	6,958	7,030	24,029		
	12 feet and under 15 feet.....				18,137	63,981
	15 feet and over.....	18,009	17,963	79,141		
	Corn picking units (attachments for combines).....	5,974	6,094	5,611	(2)	(2)
	Windrowers and swathers:					
	Pull type.....	555	1,031	514		
	Self-propelled.....	(D)	2,880	4,795	6,273	3,670
	Corn pickers:					
	Drawn:					
	1-row.....	4,872	5,342	4,321	4,363	3,406
	2-row.....	5,240	4,926	6,262	6,008	5,389
	Mounted or semimounted:					
	1-row.....					
	2-row.....	24,600	25,443	32,653	25,905	27,831
	Picker-shellers (drawn, mounted or self-propelled).....	4,767	4,621	2,017	(3)	(3)
	Potato diggers.....	1,176	1,237	762	1,040	474
	Potato harvesters.....	568	581	2,304	545	799
	Beet harvesters.....	2,277	2,277	3,563	1,824	3,510
	Peanut diggers, shakers, and windrowers.....	1,493	1,431	469		
	Peanut combines.....	1,933	1,769	4,316	(4)	(4)
	Field forage harvesters:					
	Shear bar type (rigid knives or vertical combination):					
	Basic machines:					
	Engine drive.....	1,830	1,698	2,034		
	Power take-off.....	9,327	11,539	10,943		
	Attachments for shear bar type forage harvesters:					
	Pick-up hay unit.....	3,762	3,636	812		
	Cutter bar hay unit.....	4,670	5,569	2,026	63,670	27,889
	Row crop unit.....	9,864	9,478	3,207		
	Flail type (horizontal knives or vertical free-swinging knives or hammers) including discharge spouts.....	11,503	10,570	7,163		
	Cotton strippers.....	2,149	2,339	2,115	1,023	730
	Cotton pickers.....	1,107	1,139	8,781	2,735	8,526
	Other harvesting machinery.....	3,819	4,323	6,790	8,717	5,687
	Attachments.....					
	Field shelling attachments for corn pickers, including conversion packages.....	xxx	xxx	24,217	xxx	13,864
	Parts.....	xxx	xxx	43,343	xxx	32,959
	Harvesting machinery, including parts and attachments, not specified by kind.....	xxx	xxx	xxx	xxx	8,564
	Haying machinery, total.....	xxx	xxx	175,860	xxx	147,883
	Mowers, cutter-bar type:					
	Drawn.....	12,543	13,133	3,457	7,174	1,624
	Semimounted.....	34,245	34,789	8,623		
	Mounted.....	40,046	41,500	6,954	74,485	12,606
	Rakes:					
	Sulky (dump).....	4,405	2,569	367	4,869	433
	Side delivery (revolving wheel-type).....					
	Side delivery (including combination side rakes and tedders) cylinder-type:					
	Drawn.....	39,855	39,487	12,471	62,043	14,542
	Mounted and semimounted.....	17,141	16,486	4,951		
	Hay stackers.....	2,724	3,030	1,938	5,555	3,125

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers			
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Farm machinery (except tractors)—Continued As reported on Census Annual Form MA-35A—Continued Haying machinery—Continued					
	Pick-up hay balers:					
	Wire:					
	Engine driven.....	4,719	3,921	8,562	8,896	14,327
	Tractor power take-off.....	4,222	3,857	5,458		
	Twine:					
	Engine driven.....	9,937	9,121	15,385	25,580	32,184
	Tractor power take-off.....	51,798	52,229	60,190	34,727	35,274
	Hay bale loaders (field type).....	4,220	4,301	1,108	5,705	1,216
	Hay crushers and field hay conditioners.....	32,476	31,698	15,571	xxx	2,618
	Other haying machinery.....	xxx	xxx	956		
	Attachments.....	xxx	xxx	5,586	xxx	4,276
	Parts.....	xxx	xxx	24,283	xxx	22,964
	Haying machinery, including parts and attachments, not specified by kind.....	xxx	xxx	xxx	xxx	4,694
	Farm dairy machines and equipment, total.....	xxx	xxx	20,602	xxx	22,185
	Mechanical installations:					
	Pumping outfits, stationary.....	32,752	32,607	3,163	27,162	2,110
	Pumping outfits, portable.....					
	Pail-type milking machines:					
	Suspended units.....	58,071	57,809	4,304	71,424	5,960
	Floor type (single unit).....	16,769	16,505	1,219	17,262	1,634
	Floor type (double unit).....	1,124	1,133	152	2,024	259
	Pipeline milker units (Individual clusters).....	17,052	16,773	4,072	6,805	1,451
	Cream separators, hand or power operated:					
	Capacity 500 pounds or less per hour, including bench type.....	(D)	1,326	139	6,198	570
	Capacity 501-800 pounds per hour.....				13,859	2,366
	Capacity 801-1,500 pounds per hour.....					
	Farm milk coolers, not mechanically refrigerated.....	662	662	47	3,916	298
	Butter churns, farm size.....	57,847	57,775	450	xxx	948
	Other farm dairy machines and equipment.....				xxx	195
	Attachments.....	xxx	xxx	7,056	xxx	8,286
	Parts.....				xxx	xxx
	Farm dairy machines and equipment, including parts and attachments, not specified by kind.....	xxx	xxx	xxx	xxx	556
	All other farm machines and equipment, total.....	xxx	xxx	188,042	xxx	135,569
	Cultivators and weeders, total.....	xxx	xxx	48,552	xxx	42,584
	Corn and cotton type cultivators:					
	Horse-drawn.....	5,441	6,000	74	26,674	370
	Tractor-drawn.....	1,951	1,626	289	7,986	706
	Mounted:					
	1-row.....	7,966	8,081	572	12,657	736
	2-row.....	21,417	26,224	3,689	45,226	6,193
	4-row.....	35,373	32,938	12,420	19,841	6,113
	6-row and larger.....					
	Beet, bean, and vegetable cultivators, drawn or mounted.....	2,584	2,593	296	79,916	5,852
	Rotary hoe cultivator sections, drawn or mounted.....	83,268	76,268	5,735		
	Stubble mulchers or tillers, chisel or sweep type.....	1,150	1,132	329	3,516	922
	Field cultivators and field tillers, drawn or mounted.....	8,349	8,649	2,052	12,654	2,097
	Tool bar carriers:					
	Drawn.....	6,509	6,373	2,273	5,960	1,935
	Mounted.....	13,191	11,597	871	9,445	782
	Weeders, drawn or mounted:					
	Rod.....	5,184	3,731	694	3,212	554
	Toothed.....				3,400	131
	Other cultivators and weeders.....	xxx	xxx	2,714	xxx	1,963
	Attachments.....	xxx	xxx	8,117	xxx	6,861
	Parts.....	xxx	xxx	8,427	xxx	7,368

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers		Quantity (number of units)	Value (\$1,000)
	Farm machinery (except tractors)—Continued					
	As reported on Census Annual Form NA-35A—Continued					
	All other farm machines and equipment—Continued					
	Machines for preparing crops for market or use, total.....	xxx	xxx	44,166	xxx	33,892
	Stationary threshers (except peanut).....	368	430	760	567	1,037
	Peanut pickers and threshers.....				1,034	1,373
	Corn shellers, power:					
	Capacity less than 150 bushels per hour.....	423	547	65	5,474	1,329
	Capacity 150 to 500 bushels per hour.....	2,415	2,333	900		
	Capacity over 500 bushels per hour.....	919	1,075	1,534		1,744
	Ensilage cutters (silo fillers).....	(D)	455	173	1,178	374
	Feed grinders and crushers, power (farm size):					
	Hammer mills, with hammers only.....	9,238	9,571	1,970	15,095	2,877
	Burr mills, with grinding plates only.....	5,965	5,983	1,851	10,173	1,133
	Combination roughage mills.....	5,269	6,002	2,039	5,311	1,368
	Feed mixers (farm size).....	9,662	9,308	2,673	7,359	1,167
	Grain and corn graders and cleaners (farm size).....	2,343	2,393	388	(4)	(4)
	Tobacco curers.....	3,812	5,491	646	16,432	1,337
	Driers, grain, hay, and seed:					
	Heated air crop driers.....	8,802	7,477	11,696	1,322	2,286
	Crop drying fans (over 15,000 CFM at approximately 1 inch pressure).....	5,572	5,155	709		
	Other machines for preparing crops for market or for use.....	xxx	xxx	9,713	xxx	8,552
	Attachments.....	xxx	xxx	5,357	xxx	4,291
	Parts.....	xxx	xxx	3,692	xxx	5,024
	Farm poultry equipment, total.....	xxx	xxx	41,302	xxx	25,566
	Incubators (quantity in total egg capacity):					
	1,000-egg capacity and smaller.....	1,506,747	1,506,779	276	2,055,160	262
	1,001-19,999-egg capacity.....	7,897,127	7,666,790	1,277	7,354,487	1,036
	20,000-egg capacity and larger.....	39,539,984	37,600,416	5,034	17,858,702	2,481
	Brooders, floor:					
	Electric.....	94,482	100,275	459	185,489	1,086
	Oil.....	24,302	25,510	864	25,610	614
	Gas.....	111,463	115,570	3,620	68,533	1,918
	Coal and wood.....	12,622	12,433	437	5,461	168
	Brooders, battery (quantity in number of decks).....	15,210	12,397	262	26,921	485
	Growing batteries (quantity in number of decks).....	3,709	4,341	51	12,352	200
	Nests, hens', trap and laying (quantity in number of openings).....	1,652,376	1,670,326	2,662	499,208	2,278
	Laying cages.....	500,140	480,212	566	(5)	(5)
	Poultry feeders:					
	Trough type.....	1,847,923	1,890,136	2,945	3,288,122	3,866
	Ranging type.....	1,782,063	1,874,910	3,431		
	Automatic.....	17,282	17,345	7,585		
	Poultry waterers:					
	Trough type.....	537,191	530,027	3,200	2,388,869	964
	Others.....	1,735,204	2,194,963	3,105	1,239,701	2,557
	Other farm poultry equipment.....	xxx	xxx	2,936	xxx	2,978
	Attachments.....	xxx	xxx	743	xxx	534
	Parts.....	xxx	xxx	1,829	xxx	2,028
	Barn equipment, total.....	xxx	xxx	20,393	xxx	12,856
	Feed and litter carriers (overhead).....	1,754	1,661	116	2,981	175
	Feed trucks.....	3,592	3,793	243	2,949	215
	Dairy cattle stalls for use with stanchions.....	77,810	77,832	61,193	6103,764	61,152
	Chain tie stalls (all types).....	33,141	33,084	657	17,548	238
	Milking parlor stalls.....	11,769	11,825	1,111	6,638	562
	Panel type milking or feeding stalls.....	10,113	9,991	141	14,050	319
	Stanchions, swing type.....	181,444	181,610	1,096	222,437	1,052
	Livestock pens (quantity in number of feet).....	67,484	67,510	409	97,641	445
	Livestock water bowls, inside.....	266,600	264,086	1,490	279,016	1,209
	Barn cleaners.....	12,364	12,477	11,229	5,109	4,087
	Other barn equipment.....	xxx	xxx	1,119	xxx	1,352
	Attachments.....	xxx	xxx	371	xxx	849
	Parts.....	xxx	xxx	1,218	xxx	1,201

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF FARM MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954	
		Total production (number of units)	Shipments including interplant transfers			
			Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Farm machinery (except tractors)—Continued					
	As reported on Census Annual Form MA-35A—Continued					
	All other farm machines and equipment—Continued					
	Barnyard equipment, total.....	xxx	xxx	28,286	xxx	16,742
	Silo unloaders.....	5,416	5,487	5,002	}	(7)
	Mechanical feeders.....	4,811	4,770	612		
	Animal stock tanks.....	139,784	142,783	3,565	168,889	3,717
	Hog troughs.....	152,483	159,063	289	191,605	467
	Livestock outside watering bowls.....	33,040	33,269	1,600	24,853	541
	Hog waterers.....	224,738	225,974	2,786	157,084	2,504
	Livestock water heaters.....	101,507	103,006	1,233	70,789	759
	Hog feeders:					
	Metal.....	229,449	224,168	8,380	128,412	4,719
	Wood.....	12,560	12,386	682	30,282	1,077
	Other barnyard equipment.....	xxx	xxx	3,372	xxx	2,171
	Attachments.....	xxx	xxx	260	xxx	229
	Parts.....	xxx	xxx	505	xxx	459
	Farm blowers, total.....	xxx	xxx	5,343	xxx	3,929
	Grain blowers (farm size).....	454	651	134	}	8,714
	Forage blowers including combination grain and forage blowers.....	8,206	7,976	3,684		
	Other farm blowers.....	1,424	1,575	584		
	Attachments.....	xxx	xxx	421	xxx	575
	Parts.....	xxx	xxx	520	xxx	709
	Windmill heads and windmill towers:					
	As reported in the Census of Manufactures.....	xxx	xxx	2,563	}	(8)
	As reported on Census Monthly Form M-35G.....	xxx	10,054	1,472		
	Windmill heads.....	xxx	6,983	987		
	Windmill towers.....	xxx	3,071	485		
35227--	Lawn mowers, including parts and attachments, total.....	xxx	xxx	241,189	xxx	138,420
3522711	Hand (reel type).....	354,872	391,412	5,341	973,454	14,196
	Power:					
	Reel type:					
3522723	Nonriding.....	238,096	305,657	20,978	}	452,241
3522725	Integral riding.....	14,457	18,569	4,138		
	Rotary type:					
3522741	Hand traction.....	2,092,079	2,250,288	99,776	1,150,481	57,467
	Power traction:					
3522753	Nonriding.....	1,074,371	1,123,819	56,043	}	159,383
3522755	Integral riding.....	148,244	142,739	23,505		
3522771	Parts for lawn mowers.....	xxx	xxx	15,681	}	xxx
3522798	Other (include gang-cutting units, sickle-bar mowers shipped as complete units, lawn edgers, and special cutting units).....	xxx	xxx	9,800		
3522700	Lawn mowers, not specified by kind.....	xxx	xxx	5,927		
3522998	Other farm machines, equipment, attachment and parts, including parts sold to other plants producing farm equipment.....	xxx	xxx	79,875	xxx	81,732
3522900	All other farm machines and equipment, including parts and attachments not specified by kind.....	xxx	xxx	28,835	xxx	13,354
3522000	Farm machinery, not specified by kind.....	xxx	xxx	30,610	xxx	xxx

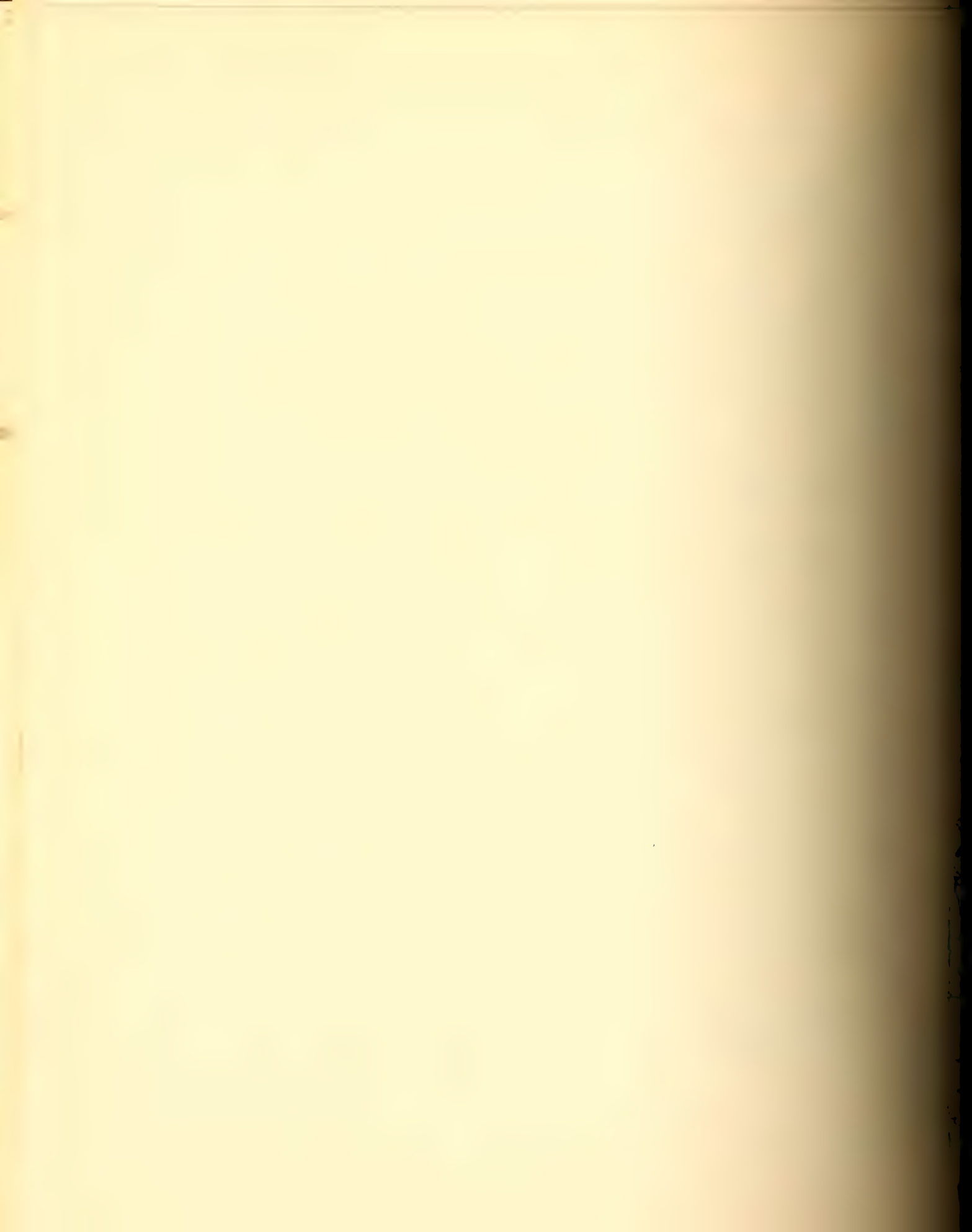
D Withheld to avoid disclosing figures for individual companies.

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on annual Form MA-35A. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual figures amounting to about three percent at the industry level and not more than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the annual survey.
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35A will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²Included with "Attachments for harvesting machinery."³Included with "Other harvesting machinery."⁴Included with "Other machines for preparing crops for market or for use."⁵Included with "Other farm poultry equipment."⁶Excludes value of stanchions shipped with stalls.⁷Included with "Other barnyard equipment."⁸Included with "All other farm machines and equipment."



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-35A-5

INTERNAL COMBUSTION ENGINES INDUSTRY

(Industry Code 3519--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Internal Combustion Engines Industry shipped products valued at \$1,108 million, an increase of 21 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 3 percent from 1954 to 1958 to a total of 53.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$ 518 million in 1958, an increase of 40 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE INTERNAL COMBUSTION ENGINES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3519)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	53.4	51.8	+3
Payroll.....	Million dollars...	293.6	241.1	+22
Production workers:				
Number.....	Thousands.....	37.4	39.3	-5
Man-hours.....	Millions.....	73.1	77.1	-5
Wages.....	Million dollars...	192.5	168.7	+14
Value added by manufacture, unadjusted ².....	...do.....	528.3	394.8	+34
Value added by manufacture, adjusted ³.....	...do.....	518.2	371.2	+40
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	571.3	518.6	+10
Value of shipments ⁵.....	...do.....	1,107.9	919.0	+21
Capital expenditures, new.....	...do.....	41.3	21.6	+91
Number of establishments with 20 or more employees ⁶	Number.....	74	70	+6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Internal Combustion Engines Industry includes establishments engaged primarily in the manufacture of diesel or semi-diesel engines and other internal combustion engines, not elsewhere classified, for stationary, marine, traction, or other uses. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Internal Combustion Engines Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Internal Combustion Engines Industry amounted to \$1,108 million. Of this total, \$992 million were products primary to the industry, \$63 million were products primary to other industries, and \$53 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of

establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,184 million of Internal Combustion Engines were shipped by all producers of these products. Of this total, \$992 million, or 84 percent, were shipped by plants classified in Industry 3519, Internal Combustion Engines, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 2.--GENERAL STATISTICS FOR THE INTERNAL COMBUSTION ENGINES INDUSTRY BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
						(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
United States, total.....	53,419	293,649	37,368	73,087	192,532	528,250	518,211	1,107,889	41,330	74	51,777	394,763
Northwest.....	6,834	38,542	4,617	8,821	24,379	68,515	60,929	122,754	699	10	8,182	44,043
All Other Regions.....	46,585	255,107	32,751	64,266	168,153	459,735	457,282	985,135	40,631	64	43,594	350,720
Ohio.....	4,744	25,734	3,015	5,604	14,286	36,970	35,502	78,682	(D)	5	5,320	33,129
Illinois.....	8,570	47,094	5,988	11,454	32,100	82,941	80,759	178,879	9,437	5	7,171	44,489
Michigan.....	11,309	67,248	7,886	15,316	43,546	101,618	110,341	238,347	(D)	13	11,778	111,916

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3A.--QUANTITY AND VALUE OF INTERNAL COMBUSTION ENGINES (EXCEPT AUTOMOTIVE AND AIRCRAFT, BUT INCLUDING DIESEL AUTOMOTIVE) BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Internal Combustion Engines Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3519--	Internal combustion engines, total.....	xxx	1,184,704	xxx	923,115
	Complete engines:				
3519100- 3519300 }	As reported in the Census of Manufactures.....	xxx	¹ 491,657	xxx	426,904
	As reported on Census Annual Form MA-35L, total.....	xxx	¹ 504,963	xxx	...
	Gasoline engines (except outboard, aircraft, automobile, bus and truck).....	5,206,921	229,438	3,064,428	192,541
	Diesel and semi-Diesel engines (except automotive) ²	76,990	243,976	65,317	208,370
	Gas engines.....	5,519	³ 1,549	6,190	25,993
3519250 3519309 and 3519451 }	Diesel and semi-Diesel engines (automotive).....	31,491	92,905	15,702	38,764
	Gas turbines including parts and accessories (except aircraft)	xxx	60,853	(³)	(³)
3519500 and 3519600 3519415 }	Other internal combustion engines.....	xxx	⁴ 182,971	xxx	⁵ 167,589
	Parts and accessories for internal combustion engines (except aircraft, automotive, truck, bus, and gas turbines)...	xxx	356,318	xxx	289,858

See footnotes at end of table

1958 CENSUS OF MANUFACTURES

Table 25.—QUANTITY AND VALUE OF GASOLINE ENGINES (EXCEPT AUTOMOTIVE, AIRCRAFT AND OUTBOARD) SHIPPED AND QUANTITY PRODUCED AND INCORPORATED INTO OTHER PRODUCTS, BY HORSEPOWER RATING AND PISTON DISPLACEMENT, 1938 AND 1954

Description	Total number of engines	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of en- gines produced and incorporated into products of same plant
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)	
HORSEPOWER RATING								
1956								
Total.....	5,755,879	5,206,921	229,438	5,124,994	204,830	81,927	24,608	548,958
Under 3.....	3,679,168	3,475,358	74,199	4,818,669	114,071	21,258	595	{ 203,816
3.0-3.9.....	1,178,132	1,125,534	27,753					
4.0-6.9.....	378,391	239,035	12,714					
7.0-10.9.....	126,746	117,019	10,185					
11-15.....	43,201	27,350	5,341	57,724	15,033	3,504	1,253	{ 15,851
16-30.....	58,803	33,878	10,445					
31-45.....	93,483	54,761	15,793					
46-60.....	97,599	39,437	10,868					
61-70.....	22,983	20,028	9,184	39,649	11,576	19,816	8,476	{ 58,162
71-80.....	77,345	16,807	7,918	56,587	43,779	17,966	8,061	{ 2,792
81-90.....		3,935	1,927					
91-100.....		17,414	6,457					
101-150.....		20,960	13,209					
151-200.....		11,851	15,520					
201-300.....	3,586	6,809	28	616	...	...	...
301 and over.....	28	616						
PISTON DISPLACEMENT (cubic inches)								
TOTAL.....	5,755,879	5,206,921	229,438	5,124,994	204,830	81,927	24,608	548,958
Under 11.....	5,081,500	4,703,846	106,127	4,684,515	105,595	19,331	532	377,654
11-30.....	269,076	237,928	16,060	311,626	33,873	6,040	1,457	{ 31,148
31-50.....	123,976	15,209	2,586					
51-75.....		31,477	6,689					
76-100.....		5,391	1,662					
101-125.....		27,661	8,333					
126-150.....	76,661	50,443	13,719	31,251	7,597	19,192	6,122	{ 26,218
151-225.....	141,851	57,389	18,281					
226-250.....		37,391	17,464					
251-300.....		19,045	8,720					
301-350.....		62,776	10,347	8,067	95,411	51,257	37,364	16,497	{ 47,071
351-500.....	7,368		13,536					
501-600.....	1,235		1,686					
601-2,000.....	2,152		5,833					
2,001 and over.....	39	39	675	39	675	...	...	{ 22,629
HORSEPOWER RATING								
1964								
TOTAL.....	73,669,505	3,064,428	192,541	2,993,575	179,323	70,853	13,218	605,077
Under 2.....	1,596,000	1,349,653	31,079	2,498,781	61,770	37,337	1,533	{ 246,347
2.0-2.9.....	1,228,569	1,186,465	32,224					
3.0-3.9.....	127,247	68,424	3,147					
4.0-5.9.....	187,189	106,788	7,462					
6.0-6.9.....	11,106	7,725	581	106,788	7,462	...	...	{ 42,104
7.0-7.9.....	59,751	1,193	772					
8.0-9.9.....		53,222	4,831					
10.0-10.9.....		8,132	1,992					
11-20.....		52,806	47,563	9,502	83,622	17,819	14,357	3,737	{ 58,823
21-25.....	50,304	37,380	8,565					
26-30.....	36,097	13,036	3,483					
31-35.....	32,015	29,903	8,813					
36-40.....	22,750	6,235	1,770	29,903	9,817	...	...	{ 80,401
41-45.....	99,724	18,677	5,278	4,619	1,200	1,616	570	{ 3,381
46-50.....	23,136	16,031	4,392	13,556	3,700	5,121	1,578	{ 5,336
51-60.....	29,159	24,601	7,622	16,031	...	...	...	{ 7,812
61-70.....	10,174	9,750	5,339	4,392	6,544	2,652	1,078	{ 5,243
71-80.....	13,874	13,415	6,121	21,949	6,544	...	...	{ 19,243
81-90.....	66,650	4,731	1,873	9,750	5,339	...	...	{ 23,061
91-100.....		19,338	7,336	13,415	6,121	...	...	{ 2,112
101-150.....		24,534	16,230	4,731	1,873	...	...	{ 16,525
151-200.....		12,164	15,016	39,368	21,687	8,504	3,879	{ 81,047
201 and over.....		1,468	7,107	10,898	14,173	1,286	843	{ 7,105
			7,107	1,468	7,107	...	...	{ 4,558
								{ 424
								{ 459
								{ 415

See footnotes at end of table 3D.

Table 3B.—QUANTITY AND VALUE OF GASOLINE ENGINES (EXCEPT AUTOMOTIVE, AIRCRAFT AND OUTBOARD SHIPS) AND QUANTITY PRODUCED AND INCORPORATED INTO OTHER PRODUCTS, BY HORSEPOWER RATING AND PISTON DISPLACEMENT, 1958 AND 1954—Continued

Size group	Total number of engines ⁶	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and incorporated into products of same plant
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)	
1954—Continued								
TOTAL.....	73,669,505	3,064,428	1,200,541	2,993,575	170,327	70,853	17,708	7,007
Under 2.....	1,441,559	1,097,124	26,454	1,059,787	24,921	37,337	1,533	344,135
6.0-10.9.....	1,560,956	1,490,756	38,781	1,490,756	38,781	70,200
11-15.....	62,393	53,881	3,435	53,881	3,435	8,412
16-20.....	144,834	49,277	3,307	49,277	3,307	17,393
21-30.....		70,823	5,401	70,823	5,401	
31-40.....		7,753	1,946	6,753	1,946	
41-50.....		9,491	2,259	9,491	2,259	
51-75.....	49,707	42,660	7,760	58,537	14,260	4,725	1,238	7,047
76-100.....	33,278	20,602	7,544					
101-125.....	67,312	42,484	9,755					
126-150.....	89,435	40,575	9,787					
151-175.....	25,604	22,125	6,226	60,589	15,374	4,111	639	3,479
176-200.....	110,252	3,472	1,172					
201-225.....		17,526	7,841					
226-250.....		49,121	18,299					
251-300.....	21,278	18,749	7,542	33,744	20,246	4,211	1,346	2,529
301-350.....	31,881	19,206	15,050					
351-400.....	14,352	1,002	519					
401-500.....		5,370	7,847					
501-600.....		1,659	1,986					
601-800.....		1,446	3,127					
801-900.....	7,473	327	866	3,127	866	3,030
901 and over.....		1,011	5,437					

See footnotes at end of table 3D.

Table 3C.—QUANTITY AND VALUE OF DIESEL AND SEMI-DIESEL ENGINES (EXCEPT AUTOMOTIVE) SHIPSET AND QUANTITY PRODUCED AND INCORPORATED INTO OTHER PRODUCTS, BY HORSEPOWER RATING AND PISTON DISPLACEMENT, 1958 AND 1954

Size group	Total number of engines ^a	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and incorporated into products of same plant
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)	
HORSEPOWER RATING		1958						
TOTAL.....	131,869	676,990	8243,976	744,424	8173,843	32,566	70,133	54,879
Under 20.....	19,914	2,311	2,245	12,690	12,882	17,904	15,905	13,975
21-30.....		72	109					
31-40.....		2,485	1,797					
41-50.....		1,071	1,395					
51-70.....	47,907	24,655	23,241	11,342	17,253	5,686	12,436	23,252
71-100.....	27,117	17,511	29,691					
101-150.....	36,931	10,850	27,363					
151-200.....		7,558	28,439					
201-300.....		7,550	36,516					
301-400.....		772	6,727					
401-500.....	36,931	889	25,855	7,571	106,302	2,906	23,394	8,046
501-600.....		251	4,557					
601-700.....		205	10,656					
701-800.....	36,931	181	7,137	7,571	106,302	2,906	23,394	8,046
801-900.....		65	1,657					
901-1,000.....		16	1,702					
1,001-1,500.....		243	10,439					
1,501 and over.....		305	24,450					

See footnotes at end of table 3D.

Table 3C.—QUANTITY AND VALUE OF DIESEL AND SEMI-DIESEL ENGINES (EXCEPT AUTOMOTIVE) SHIPPED AND QUANTITY PRODUCED AND INCORPORATED INTO OTHER PRODUCTS, BY HORSEPOWER RATING AND PISTON DISPLACEMENT, 1958 AND 1954—Continued

Size group	Total number of engines ^a	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Number of engines produced and incorporated into products of same plant				
		Number	Value (\$1,000)	Number	Value (\$1,000)	Number	Value (\$1,000)					
1958—Continued												
PISTON DISPLACEMENT (cubic inches)												
TOTAL.....	131,869	876,990	8243,976	844,424	8173,843	32,566	70,133	54,879				
Under 101.....	61,020	2,261	2,151	2,261	2,151	...	...	19,590		
101-150.....		4,221	5,165									
151-200.....		3,070	2,523	21,800	28,452	17,369	15,713					
201-250.....		10,212	10,142									
251-300.....		21,666	26,335									
301-400.....	26,296	7,216	12,069	3,118	4,820	4,098	7,249	19,080				
401-500.....	21,951	7,358	21,877	7,419	26,246	5,711	22,570	8,821				
501-600.....		5,772	26,939									
601-800.....		6,902	24,305									
801-1,000.....		5,135	21,809									
1,001-1,500.....		1,785	18,948									
1,501-2,000.....	22,602	318	13,057	9,690	94,865	5,388	24,601	7,388				
2,001-3,000.....		376	7,822									
3,001-5,000.....		299	17,160									
5,001-10,000.....		263	16,365									
10,001-15,000.....		78	9,768	78	9,768	...	...			
15,001-25,000.....		28	2,456	28	2,458	...	...			
25,001 and over.....		30	5,085	30	5,085	...	...			
1954												
HORSEPOWER RATING												
TOTAL.....	8104,686	65,317	208,370	48,639	172,271	16,678	36,099	39,369				
Under 6.....	5,661	247	172	247	172	...	...	1,267		
6-10.....		147	134	147	134	...	...			
11-20.....		307	355	307	355	...	...			
21-30.....		173	307	173	307	...	...			
31-40.....		3,520	3,220	1,840	1,477	1,680	1,743					
41-50.....	9,861	5,191	5,158	12,823	12,006	8,769	10,158	4,670				
51-70.....	27,682	16,401	17,006									
71-100.....	17,731	10,979	14,045						8,905	11,417	2,074	2,628
101-150.....	26,242	14,456	35,258						12,185	30,607	2,271	4,651
151-200.....	6,719	4,683	17,398									
201-300.....	7,883	7,712	33,100	10,791	44,720	1,604	5,778	171				
301-500.....	768	715	28,476	715	28,476	...	...	53		
501-600.....	2,139	134	5,414	506	42,600	280	11,141	1,353				
601-800.....		213	11,974									
801-900.....		43	3,161									
901-1,000.....		19	1,362									
1,000-1,500.....		89	7,514									
1,501 and over.....		288	24,316									
PISTON DISPLACEMENT (cubic inches)												
TOTAL.....	8104,686	65,317	208,370	48,639	172,271	16,678	36,099	39,369				
50 and under.....	17,861	321	804	319	804	...	...	1,342		
51-100.....		331	1,127	333	1,127	...	...			
101-150.....		6,569	6,206	12,264	12,034	3,603	4,680					
151-200.....		1,026	1,038									
201-250.....		8,272	9,470									
251-300.....	22,532	17,544	22,078	12,889	16,587	4,655	5,491	4,988				
301-400.....	21,827	7,046	9,453	12,352	27,391	5,938	9,704	14,781				
401-500.....	11,753	8,877	20,730									
501-600.....	9,734	2,367	6,912									
601-800.....	13,241	7,285	26,080									
801-1,000.....		1,727	6,107									
1,001-1,500.....		1,869	10,255	1,869	10,255	...	...	3,351		
1,501-2,000.....	2,518	844	29,739	844	29,739	...	...			
2,001-3,000.....		323	5,494									
3,001-5,000.....		258	7,464									
5,001-10,000.....		399	22,107									
10,001-15,000.....		167	13,209	578	32,687	245	10,093	435				
15,001-25,000.....		42	2,902	42	2,902	...	...			
25,001 and over.....		51	7,195	51	7,195					

See footnotes at end of table 3D.

1958 CENSUS OF MANUFACTURES

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Table 3D.—QUANTITY AND VALUE OF GAS ENGINES (EXCEPT AUTOMOTIVE) SHIPPED AND QUANTITY PRODUCED AND INCORPORATED INTO OTHER PRODUCTS, BY HORSEPOWER RATING AND PISTON DISPLACEMENT: 1958 AND 1954

Size group	Total number of engines ⁸	Shipments and interplant transfers ¹⁰		Number of engines produced and incorporated into products of same plant
		Number	Value (\$1,000)	
HORSEPOWER RATING		1958		
TOTAL.....	14,931	5,519	31,549	9,412
Under 51.....	4,663	2,209	2,276	2,454
51-150.....	10,268	2,099	2,881	6,958
151-200.....		534	1,108	
201-500.....		388	6,982	
501 and over.....		289	18,302	
PISTON DISPLACEMENT (cubic inches)				
TOTAL.....	14,931	5,519	31,549	9,412
Under 251.....	4,317	1,811	1,210	2,506
251-500.....	10,614	2,002	2,168	6,906
501-2,000.....		1,083	3,333	
2,001 and over.....		623	24,838	
HORSEPOWER RATING		1954		
TOTAL.....	10,691	6,190	25,993	4,501
20 and under.....	1,769	1,769	1,084	...
21-50.....	5,334	1,648	2,186	3,886
51-150.....	3,588	2,060	3,222	815
151 and over.....		713	19,441	
PISTON DISPLACEMENT (cubic inches)				
TOTAL.....	10,691	6,190	25,993	4,501
250 and under.....	10,691	1,634	855	4,501
251-500.....		2,225	2,681	
501-1,000.....		1,551	2,904	
1,001-2,000.....		261	1,560	
2,001 and over.....		519	17,993	

xxx Not applicable.

¹For the products identified by *italics*, figures for 1958 were also collected on annual Form MA-35L. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual Form MA-35L. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to not more than 5 percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting figures on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.

²Includes dual fuel engines.³Gas turbines were included with "Other internal combustion engines; parts and accessories for gas turbines were included with "Parts and accessories for internal combustion engines."⁴Includes the value of tank engines, converted engine, outboard motors and value of engines not reported by type.⁵Includes the value of gas turbines, tank engines, converted engines and value of engines not reported by type.⁶Represents total number of engines shipped and produced and incorporated into products of the same company.⁷Includes 8,016 gas-gasoline engines.⁸Includes 80 dual-fuel (semi-Diesel) engines valued at \$12.0 million. In addition a very small number of such engines were produced and incorporated into products of the same company.⁹Includes 64 dual engines valued at \$6.4 million.¹⁰Shipments to other companies and interplant transfers are combined to avoid disclosing figures for individual companies.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P) 35A-6

CONSTRUCTION AND MINING MACHINERY INDUSTRY

(Industry Code 3531—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Construction and Mining Machinery Industry shipped products valued at \$1,672 million, an increase of 40 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 10 percent from 1954 to 1958 to a total of 83.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$775 million in 1958, an increase of 34 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE CONSTRUCTION AND MINING MACHINERY INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3531)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	83.1	75.7	+10
Payroll.....	Million dollars...	445.6	347.7	+28
Production workers:				
Number.....	Thousands.....	56.6	55.6	+2
Man-hours.....	Millions.....	110.8	110.8	0
Wages.....	Million dollars...	271.0	225.6	+20
Value added by manufacture, unadjusted ².....	..do.....	800.5	582.7	+37
Value added by manufacture, adjusted ³.....	..do.....	775.2	578.2	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	851.1	595.4	+43
Value of shipments ⁵.....	..do.....	1,671.6	1,192.9	+40
Capital expenditures, new.....	..do.....	36.2	25.3	+43
Number of establishments with 20 or more employees ⁶	Number.....	380	341	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Construction and Mining Machinery Industry includes establishments engaged primarily in the manufacture of heavy machinery and equipment used by the construction and mining industries for portable or fixed-plant operation; in dredging, excavating, road and airport construction; ore and rock crushing, screening or washing, ore dressing or concentration. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Construction and Mining Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Construction and Mining Machinery Industry amounted to \$1,672 million. Of this total, \$1,335 million were products primary to the industry, \$218 million were products primary to other industries, and \$119 million were receipts for miscellaneous activities. The

industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,671 million of construction and mining machinery were shipped by all producers of these products. Of this total, \$1,335 million, or 80 percent, were shipped by plants classified in Industry 3531, Construction and Mining Machinery while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE CONSTRUCTION AND MINING MACHINERY INDUSTRY (S.I.C. CODE 3531) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em- ployees, number	Value added by manufac- ture, unad-justed ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	83,051	445,597	56,580	110,810	271,043	800,510	775,168	1,671,648	36,156	380	75,698	582,670
Northeast.....	11,057	58,083	7,708	15,384	37,550	109,762	105,849	217,337	3,852	67	9,814	76,002
New York.....	1,040	5,526	725	1,525	3,703	11,653	12,516	9,604	22,069	13	1,209	9,519
Pennsylvania.....	6,385	34,245	4,397	8,596	22,077	66,559	63,023	128,561	2,124	34	4,849	40,414
East North Central.....	50,269	271,679	33,509	64,180	160,026	458,360	460,345	1,025,639	22,255	155	46,384	364,090
Ohio.....	12,384	65,403	8,199	15,594	38,127	109,209	98,127	254,374	3,956	49	15,816	118,528
Illinois.....	16,159	84,249	10,866	20,395	50,521	162,000	161,581	329,909	7,603	42	11,953	92,632
Wisconsin.....	13,616	77,958	8,534	16,726	42,663	132,722	119,453	255,086	3,437	30	11,710	93,935
West North Central.....	8,822	46,840	6,197	12,807	29,919	77,937	76,885	167,676	3,545	47	8,073	61,440
Iowa.....	3,790	20,359	2,728	5,603	12,780	35,352	34,575	78,190	1,373	12	3,769	29,034
Missouri.....	793	3,999	508	1,031	2,285	6,854	7,341	15,982	1,352	13	805	6,015
Kansas.....	608	2,946	455	966	2,117	5,171	4,818	12,362	108	5	566	5,050
South.....	5,555	27,818	4,033	8,440	17,446	48,790	51,574	112,530	2,347	58	4,749	30,094
Texas.....	1,153	5,603	866	1,961	3,471	11,698	13,311	26,583	1,059	17	721	5,537
West.....	7,348	41,177	5,133	9,999	26,092	78,661	80,515	148,466	4,157	53	6,675	51,042
Washington.....	872	5,493	677	1,329	3,828	7,938	8,482	16,017	354	8	910	6,380
California.....	2,885	16,778	2,027	4,077	10,333	29,510	27,697	59,598	958	28	2,534	20,998

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF CONSTRUCTION AND MINING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Construction and Mining Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3531---	Construction and mining machinery, total.....	xxx	1,670,841	xxx	1,159,268
	Products included in the Census of Manufactures but not on Census Quarterly Form M-35D or Annual Form MA-35D, total.....	xxx	844,167	xxx	(NA)
3531132	Hoists:				
3531132	Hand and electric chain hoists.....	134,877	17,589	157,715	12,675
3531134	Mine shaft and slope electric wire-rope hoists.....	53	1,325	30,055	16,044
3531136	Other electric wire-rope hoists.....	17,645	14,557		
3531137	Air hoists.....	5,015	5,590	8,702	5,400
3531138	Other hoists.....	100,314	20,340	(NA)	20,951
3531152	Winches, except winches for mounting on wheel or tracklaying tractors.....	26,379	17,024	(NA)	27,182
3531171	Derricks, except oil and gas well (include gallows, frames, ginpole, stiff legs and guy).....	708	919	(NA)	1,851
3531100	Hoists, winches, derricks and cranes (except construction power cranes), not specified by type.....	xxx	3,974	xxx	...
3531281	Front end attachments, buckets, grapples, slings, etc., for power cranes, draglines and shovels (sold separately).....	xxx	18,486	xxx	13,601
3531285	Parts for power cranes, draglines and shovels.....	xxx	95,391	xxx	75,486
3531200	Power cranes, draglines, and shovels, not specified by type.....	xxx	3,072	xxx	...
	Mixers, pavers, and related equipment:				
	Concrete:				
3531312	Mixers, portable under 3-1/2 cu. ft. capacity (except plaster and mortar), hand or power operated.....	18,680	1,403	30,816	2,560
3531331	Mixers, plaster and mortar.....	7,364	3,234	5,907	2,582
3531334	Pavers, finishers and spreaders.....	2,410	8,507	372	4,028
3531339	Concrete vibrators.....	(NA)	2,858	5,918	2,276
3531352	Other materials—aggregate spreaders and soil stabilization pavers	5,793	4,364	2,596	2,363
3531300	Mixers, pavers, and related equipment, not specified by type.....	xxx	3,853	xxx	1,272
	Specialized mining machinery and equipment:				
3531411	Coal cutting machines (whether used for coal or other soft minerals).....	122	5,658	287	4,636
3531432	Underground loaders, including mobile loading machines (include shovel and gathering types), scraper loaders and other types.....	609	9,210	950	11,039
3531441	Continuous mining machines.....	116	10,736	98	6,661
3531451	Mineral classifying, flotation, separating, concentrating, cleaning, sedimentation, clarifying and related equipment (except screening machinery and plants).....	xxx	19,223	xxx	23,497
	Underground mine cars:				
3531473	Shuttle cars.....	(NA)	8,545	(NA)	14,788
3531475	Other mine cars (including car dumpers).....	(NA)	6,401		
3531400	Specialized mining machinery, not specified by type.....	xxx	4,857	xxx	...
	Crushing, pulverizing, and screening machinery:				
3531515	Crushers, and crushing plants (including jaw, roll, gyratory, hammer mills, etc.), stationary type (including crushers on skids).....	1,876	34,147	1,040	16,645
3531533	Pulverizers and grinders, portable.....	106	942	1,192	11,215
3531535	Pulverizers and grinders, stationary.....	1,064	11,627		
3531555	Screening plants, washing plants, and combination washing and screening plants (including combination crushing, washing and screening plants), stationary type.....	(NA)	23,714	(NA)	16,992
3531500	Crushing, pulverizing and screening machinery not specified by type.....	xxx	1,868	xxx	1,794
	Excavating and road construction and maintenance machinery:				
3531602	Dredging machinery, hydraulic and other types.....	xxx	10,668	xxx	8,172
3531696	Snow plows (for mounting on tractors or trucks) rotary, blower, "V" and single blades and wings (attachments only)...	21,433	9,859	(NA)	6,349
3531698	Other excavating and road construction machinery (including earth augers and power post-hole diggers, drawn ditchers and trenchers, contractors' hand held air tools, motor pick-up sweepers, graders (other than motor graders) drawn rollers, as well as other types of excavating and earth moving equipment not specified above).....	xxx	33,679	xxx	73,101
3531600	Excavating and road construction and maintenance machinery, not specified by type.....	xxx	4,458	xxx	...
3531711	Railway maintenance of way equipment (rail layers, ballast spreaders, etc.), except rail cars.....	xxx	19,965	xxx	12,134

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF CONSTRUCTION AND MINING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers					
		1958		1954			
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)		
3531813	Construction and mining machinery—Continued Products included in the Census of Manufactures but not on Census Quarterly Form M-35D or Annual Form MA-35D—Continued Drills, mining and construction (Other than oil and gas fields, water well, and blast hole portable drilling rigs): Core drills complete (except core drilling attachments to be used with other drills).....	344	1,171	420	2,069		
3531821	Portable rock drills, hand held or mounted:						
3531825	Mining.....	6,344	3,719	18,015	8,775		
	Construction.....	19,171	8,727				
3531831	Percussion rock drill bits:						
3531835	Containing tungsten carbide.....	xxx	12,155	xxx	25,742		
3531841	Made entirely of steel.....	xxx	2,225				
	Other drills, and tools and supplies for drills (sold separately).....	878,556	22,743				
3531851	All other construction machinery and equipment (complete units).	(NA)	30,938	(NA)	30,743		
3531871	All other mining machinery and equipment (complete units).....	(NA)	17,076				
3531855	Parts and attachments for construction machinery and equipment (sold separately) (Except parts and attachments for power cranes, draglines and shovels).....	xxx	194,224	xxx	223,497		
3531875	Parts and attachments for mining machinery and equipment (sold separately).....	xxx	71,380				
3531800	Drills and other construction and mining machinery, not specified by type.....	xxx	11,183	xxx	...		
3531000	Construction and mining machinery, not specified by type.....	xxx	30,583	xxx	3,855		
	Products included in the Census of Manufactures and on Census Quarterly Form M-35D or Annual Form MA-35D: As reported in the Census of Manufactures.....	xxx	1,826,674	xxx	(NA)		
	As reported on Census Quarterly Form M-35D.....	xxx	1,812,201	xxx	...		
	Off-highway equipment (off-highway wheel tractors) (truck type) haulers, trailers, and wagons, total.....	xxx	44,229	(2)	(2)		
	Off-highway type haulers:						
	Under 16 tons capacity.....	690	9,061				
	16 tons up to but not including 30 tons capacity.....	1,016	30,007				
	30 tons capacity and over.....						
	Off-highway trailers and wagons:						
	Under 12 cubic yards standard struck capacity.....	424	5,161				
	12 cubic yards and under 18 cubic yards standard struck capacity.....						
	18 cubic yards standard struck capacity and over.....						
	Tractor shovel loaders (integral units only), total.....	14,702	161,468				
	Wheel type, standard bucket capacity:						
	Under 1 cubic yard.....	1,388	6,337				
	1 cubic yard and under 1-1/2 cubic yards.....	2,416	21,885				
	1-1/2 cubic yards and over.....	2,725	40,207				
	Tracklaying type, standard bucket capacity:						
	Under 1-1/2 cubic yards.....	2,193	17,122				
	1-1/2 cubic yards and under 2-1/4 cubic yards.....	4,671	52,373				
	2-1/4 cubic yards and over.....	1,309	23,544				
	Locomotive (except wrecking) cranes.....	36	2,656	146	8,168		
	Power cranes, draglines and shovels, including mine shovels, but not including equipment for mounting on tractors, total.....	xxx	215,690	xxx	179,604		
	Crawler mounted, rated shovel capacity:						
	Under 1/2 cubic yard.....	261	2,010	274	2,412		
	1/2 cubic yard.....	592	9,145	887	11,577		
	3/4 cubic yard.....	1,406	30,549	2,073	36,769		
	1 cubic yard.....	708	22,457	968	29,714		
	1-1/4 cubic yards.....	70	2,552				
	1-1/2 cubic yards.....	309	13,923	216	10,630		
	1-3/4 cubic yards.....	45	2,078				
	2 cubic yards.....	67	3,451	300	16,498		
	2-1/2 cubic yards.....	269	18,914	155	25,088		
	Over 2-1/2 cubic yards.....	307	41,231				

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF CONSTRUCTION AND MINING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Construction and mining machinery—Continued				
	Products included in the Census of Manufactures and on Census Quarterly Form M-35D or Annual Form M-35D—Continued				
	As reported on Census Quarterly Form M-35D—Continued				
	Power cranes, draglines and shovels, including mine shovels, but not including equipment for mounting on tractors—Continued				
	Rubber tire cranes (truck or wheel mounted), maximum working load:				
	Up to and including 10 tons.....	1,212	9,568	1,757	16,348
	Over 10 and up to and including 15 tons.....	314	7,340	608	13,426
	Over 15 and up to and including 20 tons.....	516	18,622		
	Over 20 and up to and including 25 tons.....	200	7,062		
	Over 25 and up to and including 30 tons.....	78	3,502	288	8,937
	Over 30 and up to and including 35 tons.....	154	8,176		
	Over 35 and up to and including 45 tons.....	52	2,890		
	Over 45 tons.....	18	1,488		
	Walking draglines and walking cranes.....	22	10,752	20	10,305
	Mixers, pavers, and related equipment, total.....	xxx	81,277	xxx	56,086
	Concrete mixers, portable, 3-1/2 cubic feet and over (except plaster and mortar), truck mixer or agitator type.....	7,426	25,601	8,830	21,475
	Concrete batching plants, bin and batch (for concrete, aggregate only and bulk cement).....	1,125	15,558	1,030	7,224
	Bituminous distributors.....	806	3,482	810	5,328
	Bituminous asphalt plants:				
	Gravel-mix type.....	48	858	xxx	24,759
	Central mixing plants, batch type.....	278	23,516		
	Central mixing plants, continuous type.....	153	12,262		
	Crushing plants, screening plants, washing plants, and combination plants, portable.....	1,201	29,129	(NA)	18,252
	Ditchers and trenchers, scrapers, and rollers and compactors, total.....	xxx	86,684	xxx	50,485
	Self propelled ditchers and trenchers:				
	Ladder-type:				
	Pneumatic tire mounted.....	905	1,647	256	2,954
	Crawler mounted.....	305	2,372		
	Wheel type.....	286	4,136	449	4,519
	Scrapers, dig, carrying, and hauling:				
	7 cubic yard and under 12 cubic yard:				
	2-wheel.....	792	5,236	3,577	27,380
	4-wheel.....	390	2,007		
	12 cubic yard and under 18 cubic yard, 2- and 4-wheel.....	1,206	12,045		
	18 cubic yard and over, 2- and 4-wheel.....	1,582	26,949		
	Rollers and compactors:				
	Rollers, self-propelled:				
	3-wheeled.....	495	3,631	622	5,387
	Portable.....	443	804	279	750
	Tandem 2 and 3 axle.....	1,828	7,819	1,521	6,528
	Other, including tamping and sheepsfoot, compaction, pneumatic tire, tampers, and trench.....				
	Compactors:				
	Full type, all sizes.....	6,533	20,038	2,051	4,367
	Self-propelled.....				
	Motor graders and light maintainers, total.....	6,852	82,016	7,236	58,883
	Under 75 brake hp.....	1,049	5,375	7,236	58,483
	75-114 brake hp.....	944	10,836		
	115 brake hp. and over.....	4,859	65,805		

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF CONSTRUCTION AND MINING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Construction and mining machinery—Continued				
	Products included in the Census of Manufactures and on Census Quarterly Form M-35D or Annual Form M-35D—Continued				
	As reported on Census Quarterly Form M-35D—Continued:				
	Construction machinery for mounting on tractors, total.....	xxx	87,526	xxx	72,091
	Sidebooms or pipehandlers.....	450	2,457	(2)	(2)
	Dozers, (6' blade length and over):				
	Hydraulically operated:				
	For wheel tractors.....	551	559		
	For crawler tractors.....	11,766	16,347		
	Cable operated (for wheel and crawler tractors).....	6,297	14,570	18,307	35,047
	Backhoes.....	10,031	18,873	(2)	(2)
	Front-end loaders (3/8 cubic yards and over), nonfarm type.....	14,225	10,370	11,916	26,135
	Logging arches.....	72	200	(2)	(2)
	Power control units (cable and hydraulic).....	17,173	18,220	38,916	310,909
	Rippers and rooters, heavy rear-mounted.....	4,113	5,930	(2)	(2)
	Cranes (except construction power cranes):				
	Full circle revolving with booms (such as whirleys and hammerheads).....			100	10,730
	Other cranes (including locomotive wrecking).....	xxx	21,526	(NA)	16,908
	Other construction machinery ⁴			xxx	1,786

NA Not available.

xxx Not applicable.

¹For the products identified by *italics*, figures for 1958 were also collected on Census Annual Form MA-35D, Quarterly Form M-35D. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual or quarterly form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual or quarterly survey figures amounting generally to less than 2 percent at the industry level and not more than ten percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting figures on the annual or quarterly survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual or quarterly survey will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²Included with "Other excavating and road construction machinery" (1958 code 3531698).

³1954 figures represent cable power control units.

⁴Represents selected types of construction machinery for which figures are collected on Census Annual Form MA-35D or Quarterly Form M-35D but for which separate figures could not be published. These products include other bituminous mixers and related equipment (including portable mixers, heating kettles, heaters and circulators); scrapers, 2 and 4-wheel, under 7 cubic yard standard struck capacity. Winches, (towing, logging and oil-field types) for mounting on tractors; cranes for mounting on tractors; wheel tractors (truck type), off highway type, 2 and 3-axle models; and portable drills, churn drill type, water well and blast hole.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35B-1

SPECIAL DIES AND TOOLS INDUSTRY

(Industry Code 3544--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Special Dies and Tools Industry shipped products valued at \$900 million, a decrease of 5 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 9 percent from 1954 to 1958 to a total of 70.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$664 million in 1958, a decrease of 3 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SPECIAL DIES AND TOOLS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3544)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	70.5	77.4	-9
Payroll.....	Million dollars...	459.8	458.2	+3
Production workers:				
Number.....	Thousands.....	57.8	65.5	-12
Wages.....	Million dollars...	352.1	366.3	-4
Value added by manufacture, unadjusted ²	do.....	668.5	697.0	-4
Value added by manufacture, adjusted ³	do.....	663.5	682.1	-3
Cost of materials, fuel, electricity, and contract work ⁴	do.....	229.6	244.9	-6
Value of shipments ⁵	do.....	899.7	944.4	-5
Capital expenditures, new.....	do.....	34.3	66.6	-49
Number of establishments with 20 or more employees ⁶	Number.....	833	889	-6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Special Dies and Tools Industry includes establishments engaged primarily in the manufacture of special dies and tools, die sets, jigs and fixtures. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Special Dies and Tools Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Special Dies and Tools Industry amounted to \$900 million. Of this total, \$743 million were products primary to the industry, \$80 million were products primary to other industries, and \$77 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of

primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,161 million of special dies and tools were shipped by all producers of these products. Of this total, \$744 million, or 64 percent, were shipped by plants classified in Industry 3544 Special Dies and Tools, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1809 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SPECIAL DIES AND TOOLS INDUSTRY (S.I.C. CODE 3544), BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958									1954	
	All employees		Production workers		Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total...	70,529	459,798	57,759	352,106	668,523	663,535	899,719	34,314	833	77,418	697,004
New England.....	5,959	33,204	4,867	25,519	49,146	48,943	64,102	2,718	64	6,553	44,488
Massachusetts.....	2,010	11,488	1,633	8,671	17,181	17,266	22,710	934	30	2,541	16,722
Connecticut.....	3,165	17,624	2,586	13,574	25,773	25,535	33,550	1,595	29	3,214	23,205
Middle Atlantic.....	10,900	61,519	8,838	46,124	91,884	91,574	121,595	6,936	134	13,168	96,966
New York.....	4,987	27,994	4,008	20,557	42,865	42,346	56,597	3,810	59	5,738	42,923
New Jersey.....	2,859	15,863	2,337	12,206	23,744	23,991	31,834	1,442	35	3,536	27,300
Pennsylvania.....	3,054	17,662	2,493	13,361	25,275	25,237	33,164	1,684	40	3,893	26,742
East North Central.....	44,401	310,924	36,399	238,873	443,549	438,890	599,469	18,456	522	49,022	485,501
Ohio.....	8,367	57,405	6,838	43,267	78,821	77,783	105,860	3,745	124	9,277	80,439
Indiana.....	4,076	25,686	3,185	18,446	35,702	35,757	48,658	1,282	58	4,308	37,553
Illinois.....	6,608	39,630	5,167	29,071	58,231	56,653	80,245	3,505	75	5,164	44,231
Michigan.....	23,116	174,136	19,400	136,856	248,660	246,776	335,946	8,096	241	27,856	303,779
Wisconsin.....	2,234	14,067	1,809	11,233	22,135	21,921	28,760	1,828	24	2,416	19,499
West North Central.....	2,067	12,212	1,682	9,543	19,317	19,532	25,817	1,346	24	2,272	15,298
Minnesota.....	641	4,021	528	3,255	6,051	6,068	8,038	390	4	462	3,494
Iowa.....	327	1,943	272	1,480	2,998	3,204	4,002	101	5	354	2,580
Missouri.....	894	5,253	714	4,009	8,733	8,800	11,697	769	12	956	6,271
South Atlantic.....	1,287	6,795	1,042	4,948	9,997	10,040	14,253	612	17	768	4,952
Florida.....	448	2,252	370	1,635	3,352	3,369	4,767	324	5	117	862
East South Central.....	585	3,156	499	2,514	4,990	4,982	6,959	387	8	476	2,751
Tennessee.....	316	1,634	270	1,292	2,896	2,874	4,060	185	4	229	1,421
West South Central.....	626	3,001	515	2,423	4,930	4,935	7,125	873	10	479	3,316
Texas.....	406	1,983	324	1,559	3,276	3,292	4,850	737	7	344	2,442
Mountain.....	435	2,723	360	2,139	4,053	4,102	4,871	416	4	122	791
Pacific.....	4,269	26,264	3,557	20,023	40,657	40,537	55,528	2,370	50	4,555	42,939
California.....	4,172	25,758	3,468	19,559	39,846	39,713	54,442	2,346	49	4,473	42,226

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF SPECIAL DIES, TOOLS, DIE SETS, JIGS AND FIXTURES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the special Dies and Tools Industry but also by establishments making these items as secondary products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3544---	Special dies and tools, die sets, jigs and fixtures, total.....	1,161,278	1,082,828
3544012	Jigs and fixtures, all types.....	294,030	916,415
3544021	Press dies (except forging and extrusion dies).....	339,828	
3544061	All other dies, including extrusion dies.....	61,328	
3544071	Components for jigs, fixtures, and dies, including die sets.....	36,419	
3544081	Special gages or checking fixtures.....	29,824	
3544091	Other specially designed tooling, prototypes, and models.....	74,414	21,140
3544031	Forging dies.....	29,063	
3544051	Die-casting dies.....	45,519	
3544000	Special dies and tools, die sets, jigs and fixtures, not specified by kind.....	250,788	112,787

DEPARTMENT OF COMMERCE

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

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METALWORKING MACHINERY INDUSTRY

(Industry Code 3542--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metalworking Machinery Industry shipped products valued at \$860 million, a decrease of 2 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 13 percent from 1954 to 1958 to a total of 52 thousand employees in 1958. Value added by manufacture in the industry amounted to \$470 million in 1958, a decrease of 7 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE METALWORKING MACHINERY INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3542)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	52.0	59.5	-13
Payroll.....	Million dollars...	294.5	293.8	(²)
Production workers:				
Number.....	Thousands.....	37.7	44.3	-15
Men-hours.....	Millions.....	74.1	92.3	-20
Wages.....	Million dollars...	192.0	202.5	-5
Value added by manufacture, unadjusted ³.....	..do.....	503.7	513.3	-2
Value added by manufacture, adjusted ⁴.....	..do.....	470.4	507.9	-7
Cost of materials, fuel, electricity, and contract work ⁵.....	..do.....	351.4	350.4	(²)
Value of shipments ⁶.....	..do.....	860.0	877.9	-2
Capital expenditures, new.....	..do.....	27.5	20.9	+32
Number of establishments with 20 or more employees ⁷	Number.....	267	222	+20

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Ten than 0.5 percent change.

³Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

⁴Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁵Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁶For explanation see text under "Value of shipments." Includes value or resales for both years.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Metalworking Machinery Industry includes establishments engaged primarily in the manufacture of machinery for shaping, pressing, forging, or bending metal, where the shaping action of such machines is not dependent upon a cutting tool. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Metalworking Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metalworking Machinery Industry amounted to \$860 million. Of this total, \$699 million were products primary to the industry, \$75 million were products primary to other industries, and \$86 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$827 million of metalworking machinery (except machine tools) were shipped by all producers of these products. Of this total, \$699 million, or 84 percent, were shipped by plants classified in Industry 3542 Metalworking Machinery, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE METALWORKING MACHINERY INDUSTRY (S.I.C. CODE 3542) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	51,986	294,507	37,653	74,100	191,990	503,710	470,414	859,984	27,507	267	59,468	513,279
New England.....	5,152	28,401	3,759	7,746	18,016	48,849	45,934	74,819	4,734	31	3,335	29,322
Massachusetts.....	1,532	8,950	1,151	2,541	5,451	15,593	16,535	22,962	943	9	996	8,921
Connecticut.....	3,355	18,450	2,426	4,852	11,882	31,283	27,488	49,190	3,760	19	2,107	19,018
Middle Atlantic.....	16,918	96,983	12,157	23,629	64,728	170,208	148,662	286,406	5,146	62	17,831	160,011
New York.....	4,714	26,106	2,843	5,413	14,001	47,162	41,011	74,671	1,065	24	5,483	48,359
New Jersey.....	2,783	15,609	1,666	3,413	8,983	22,071	22,776	31,670	1,148	12	3,489	24,977
Pennsylvania.....	9,421	55,268	7,648	14,803	41,744	100,975	84,875	180,065	2,933	26	8,858	86,673
East North Central.....	22,170	128,735	16,100	32,105	82,812	207,306	203,785	380,698	11,028	126	31,194	272,823
Ohio.....	11,769	70,016	8,514	16,919	45,254	106,111	103,921	207,021	6,640	61	16,188	143,897
Indiana.....	382	2,240	293	637	1,514	3,353	3,286	5,945	347	5	411	3,833
Illinois.....	6,895	39,405	5,127	10,230	25,285	68,901	68,090	120,911	3,329	32	11,558	97,202
Michigan.....	2,373	12,783	1,652	3,284	8,215	20,795	20,665	34,424	488	22	2,156	19,227
Wisconsin.....	751	4,291	514	1,035	2,544	8,146	7,823	12,397	224	6	879	8,663
West North Central.....	1,329	7,485	921	1,905	4,437	12,177	12,082	19,226	392	14	1,451	9,958
Missouri.....	294	1,429	221	437	883	2,356	2,356	3,898	141	4	528	2,947
South.....	4,207	19,618	3,146	5,565	13,665	44,614	39,884	66,576	1,103	14	3,567	25,222
West.....	2,210	13,285	1,570	3,150	8,332	20,556	20,067	32,259	5,104	20	2,088	15,942
California.....	1,925	11,523	1,361	2,722	7,103	17,268	17,222	27,833	4,954	19	1,580	12,548

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF METALWORKING MACHINERY (EXCEPT MACHINE TOOLS) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Metalworking Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3542--	Metalworking machinery (except machine tools), total.....	xxx	827,135	xxx	793,209
35421-50	Rolling mill machinery and equipment.....	xxx	250,223	xxx	143,512
3542210	Metalworking machinery (except machine tools):				
3542310					
3542410					
3542510					
3542611-55					
	As reported in the Census of Manufactures.....	xxx	1,214,522	xxx	382,995
	As reported on Census Annual Form MA-35H.....	xxx	1,207,249	xxx	xxx
	Metalworking presses (including forging and manual presses), total.....	xxx	*76,501	xxx	217,369
	Mechanical:				
	Open inclinable gap type:				
	50 tons and under:				
	Average value under \$1,000.....	3,734	1,724	7,423	9,074
	Average value \$1,000 or over.....	1,365	5,225		
	51 tons and over.....	441	3,320	1,504	12,314
	End wheel type, including horn-fixed and adjustable type:				
	50 tons and under.....	196	193	406	1,880
	51 tons and over.....	11	102	289	8,537
	Vertical straight sided and arch frame, excluding knuckle joint (including cam and crank):				
	Single action:				
	Single point:				
	500 tons and under.....	106	2,278	341	7,615
	501 tons and over.....			75	9,315
	Two point:				
	500 tons and under.....	141	6,454	846	28,927
	501 tons and over.....			43	4,302
	Four point:				
	500 tons and under.....	11	1,039	141	10,774
	501 tons and over.....	20	3,482	151	19,771
	Double and triple action:				
	Single point.....	31	6,331	37	1,157
	Two and four point.....			99	17,626
	High speed automatic type with feed (including multiple transfer):				
	50 tons and under.....	117	1,499	443	3,679
	51 tons to 200 tons.....	53	2,450	133	3,705
	201 tons and over.....	6	614	27	1,495
	Knuckle joint:				
	500 tons and under.....	21	717	49	1,340
	501 tons and over.....				
	Horizontal and gap or C-frame:				
	Average value under \$2,000.....	223	191	248	3,506
	Average value \$2,000 or over.....	105	1,574		
	Other mechanical presses (including bulldozers).....	1,930	7,072	21,975	210,359
	Hydraulic and pneumatic presses (metalworking only):				
	Vertical single action:				
	Housing or straight column type (4-piece frame):				
	500 tons and under:				
	Average value under \$1,000.....	1,064	477	1,209	7,039
	Average value \$1,000 or more.....	101	1,778		
	501 tons to 1,500 tons.....	12	753	71	6,356
	1,501 tons and over.....	4	1,650	27	7,325
	Open rod type:				
	500 tons and under.....	224	1,917	208	8,841
	501 tons to 1,500 tons.....	6	424		
	1,501 tons and over.....	8	2,085		
	Gap or C-frame type:				
	50 tons and under.....	1,741	3,652	1,956	4,707
	51 tons and over.....	96	1,388		
	Vertical double action (2 slide) type:				
	500 tons and under.....	14	847	19	1,256
	501 tons and over.....			(NA)	2,337
	Horizontal (except extrusion) type:				
	500 tons and under.....	43	523	113	4,392
	501 tons and over.....	10	2,101		
	Extrusion presses (all types).....	46	8,302	53	4,316
	Other hydraulic presses.....	*164	*4,993	2,224	11,977

See footnote at end of table.

Table 3.—QUANTITY AND VALUE OF METALWORKING MACHINERY (EXCEPT MACHINE TOOLS) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Metalworking machinery—Continued				
	Metalworking machinery—Continued				
	As reported on Census Annual Form MA-35W—Continued				
	Metalworking presses—Continued				
	Manual presses (arbor, straightening, forcing, and assembly)	5,482	525	(NA)	1,032
	Metalworking presses, including forging presses, not specified by kind.....	xxx	821	xxx	2,415
	Forging machines (except presses).....	644	17,387	xxx	24,412
	Hammers; steam, air and mechanical.....	88	1,623	236	5,956
	Forging rolls and swaging machines.....	196	1,007	384	1,581
	Readers and upsetters.....	360	14,757	370	14,691
	Other forging machinery, including bulldozers.....	xxx	...	183	2,009
	Forging machines (except presses) not specified by kind....	xxx	...	xxx	175
	Punching and shearing machines (power and manual).....	*9,549	*31,967	xxx	26,549
	Manually operated.....	6,797	1,671	2,530	685
	Power:				
	Punches (including combination punching and shearing machines).....	728	4,408	693	2,967
	Plate shearing machines (squaring, slitting, etc.).....	1,345	13,752	1,460	13,152
	Bar and angle shearing machines.....	84	4,093	108	1,275
	Rotary shearing machines.....	281	3,244	491	4,807
	Other power punching and shearing machines.....	*314	*4,482	1,258	3,285
	Punching and shearing machines, not specified by kind.....	xxx	317	xxx	178
	Bending and forming machines (power and manual).....	xxx	*32,127	xxx	35,573
	Power:				
	Bending rolls, sheet and plate.....	545	4,089	532	3,623
	Bending rolls, angles, bars and shapes (including light industrial types).....	131	1,160	94	858
	Bending brakes and folders.....	905	8,783	1,449	9,407
	Rotary bending and forming machines.....	2,394	3,700	2,509	2,670
	Rotary lead and ram bending machines (pipe, bar, etc.)....	566	2,640	300	2,552
	Other power bending and forming machines.....	1,011	6,589	xxx	12,718
	Manually operated (hand or foot):				
	Bending brakes and folders.....	5,589	2,314	5,936	1,839
	Rotary bending and forming machines.....	5,813	722	2,881	465
	Other bending and forming machines (manual).....	1,784	406	1,173	167
	Bending and forming machines, not specified by kind.....	xxx	1,724	xxx	1,274
	Other metalworking machinery, total.....	xxx	*50,991	xxx	79,292
	Riveting machines (except hand held portable types):				
	Average value under \$1,000.....	2,789	2,222		
	Average value \$1,000 or over.....	1,183	2,798	3,067	3,616
	Metal container making machines:				
	Can.....	816	*18,625	2,109	19,563
	Barrel, drum, and other.....	xxx	xxx	(NA)	1,876
	Die casting machines.....	*170	*6,188	340	7,870
	Machines for weaving and other wire fabricating (barbed wire, poultry netting, wovenwire fence machines, etc.)....	587	4,645	1,030	7,117
	Drawing machines, and draw benches.....	503	12,875	443	7,494
	Thread rolling machines.....	135	*1,749		
	Spinning lathes.....	113	165	xxx	31,756
	Other metal forming type machine tools (include marking machines, knurling machines, etc.).....	1,262	1,724		
35426--	Portable power-driven hand tools ²	xxx	214,615	xxx	170,460
	Electric:				
	Drills:				
3542611	3/8 inch chuck size and smaller.....	1,510,926	25,202	1,278,838	26,826
3542612	1/2 inch and larger.....	245,307	8,890	277,421	11,188
3542621	Saws (except chain saws).....	1,461,944	35,053	586,197	22,681
3542623	Disc sanders.....	428,955	6,571	137,531	5,206
3542626	Other electric, power-driven hand tools (including grinders, hammers, screw drivers and nut runners, portable polishers, riveters, refacers, etc.).....	(NA)	23,562	xxx	27,554
3542628	Parts, attachments and accessories for electric hand tools (sold separately).....	xxx	29,394	xxx	(4)

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF METALWORKING MACHINERY (EXCEPT MACHINE TOOLS) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Metalworking machinery—Continued				
	Portable power-driven—Continued				
	Pneumatic:				
3542632	Drills.....	26,497	5,684	54,034	8,669
3542648	Other pneumatic power-driven hand tools (including saws (except chain saws), disc sanders, grinders, hammers, screw drivers and nut runners, portable polishers, riveters, refacers, etc.).....	(NA)	36,731	xxx	19,240
3542651	Parts, attachments and accessories for pneumatic hand tools (sold separately).....	xxx	26,133	xxx	443,259
3542661	Powder-actuated hand tools.....	xxx	4,132	xxx	1,913
3542600	Power-driven hand tools, not specified by type.....	xxx	13,263	xxx	3,924
354221-31	Welding and cutting apparatus, except electric.....	xxx	38,088	xxx	26,822
3542875	Rebuilt metalworking type machine tools.....	xxx	2,038	xxx	448
3542911	Parts for metalworking type machine tools (except parts for electric and pneumatic power-driven hand tools).....	xxx	75,918	xxx	65,581
3542000	Metalworking machinery, not specified by kind.....	xxx	31,731	xxx	3,391

*Revised.

NA Not available.

xxx Not applicable.

¹For the products identified by *italics*, figures for 1958 were also collected on annual Form MA-35W. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to less than 4 percent at the industry level. These variations were due primarily to the following reasons:

1. Use of different reporting periods (calendar year vs. fiscal year.)
2. Use of different bases for reporting value (company sales vs. factory production.)
3. Use of estimates in reporting figures on the annual survey, whereas Census of Manufactures generally represent more exact shipments figures.
4. Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35W will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²For 1954, bulldozers are included with "Other forging machinery."

³Includes tools which are controlled by hand and the position of which in operation need not be fixed.

⁴Figures for parts, attachments, and accessories for electric hand tools are included with those for pneumatic hand tools.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -35B-3

METALWORKING MACHINERY ATTACHMENTS INDUSTRY

(Industry Code 3545—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Metalworking Machinery Attachments Industry shipped products valued at \$505 million, an increase of 4 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 9 percent from 1954 to 1958 to a total of 40.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$347 million in 1958, an increase of 2 percent from 1954

when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE METALWORKING MACHINERY ATTACHMENTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3545)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	40.9	44.9	-9
Payroll.....	Million dollars...	225.0	212.7	+6
Production workers:				
Number.....	Thousands.....	29.1	34.5	-16
Man-hours.....	Millions.....	57.2	69.9	-18
Wages.....	Million dollars...	144.2	146.9	-2
Value added by manufacture, unadjusted ².....	...do.....	360.9	351.6	+3
Value added by manufacture, adjusted ³.....	...do.....	347.4	341.4	+2
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	140.7	133.2	+6
Value of shipments ⁵.....	...do.....	504.5	486.8	+4
Capital expenditures, new.....	...do.....	14.5	16.6	-13
Number of establishments with 20 or more employees ⁶	Number.....	296	307	-3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Metalworking Machinery Attachments Industry includes establishments engaged primarily in the manufacture of cutting tools and other attachments and accessories for machine tools and other metalworking machinery, not elsewhere classified, and precision measuring tools. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Metalworking Machinery Attachments Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Metalworking Machinery Attachments Industry amounted to \$505 million. Of this total, \$388 million were products primary to the industry, \$85 million were products primary to other industries, and \$32 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments

(primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$480 million of metalworking machinery attachments were shipped by all producers of these products. Of this total, \$388 million, or 81 percent, were shipped by plants classified in Industry 3545, Metalworking Machinery Attachments, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE METALWORKING MACHINERY ATTACHMENTS INDUSTRY (S.I.C. CODE 3545) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	40,859	224,965	29,065	57,245	144,164	360,932	347,427	504,512	14,486	296	44,877	351,607
New England.....	12,082	59,423	8,694	16,621	38,778	96,069	91,213	130,267	3,552	60	12,306	83,820
Massachusetts.....	5,678	25,925	4,238	7,923	18,232	46,986	43,990	62,078	1,546	23	6,808	45,078
Rhode Island.....	1,456	7,386	1,072	2,173	4,653	11,301	11,041	14,736	497	11	1,533	11,100
Connecticut.....	4,247	22,885	2,870	5,505	13,722	32,432	30,637	45,295	1,313	22	3,184	22,637
Middle Atlantic.....	4,809	23,386	3,454	6,696	14,979	37,087	35,587	56,033	2,051	39	5,412	40,463
New York.....	1,162	5,735	851	1,654	3,718	8,089	8,268	14,770	296	16	1,318	8,572
New Jersey.....	534	2,786	388	825	1,770	3,794	3,855	6,082	275	7	404	3,145
Pennsylvania.....	3,113	14,865	2,215	4,217	9,491	25,204	23,464	35,181	1,480	16	3,688	28,745
East North Central.....	21,401	128,759	15,097	30,098	81,825	203,954	196,760	284,538	7,704	164	25,462	214,561
Ohio.....	5,386	30,382	3,854	7,500	19,549	52,096	50,512	70,064	2,477	31	6,490	54,968
Indiana.....	460	2,090	306	556	1,295	3,452	3,347	4,702	208	2	721	6,200
Illinois.....	4,332	24,822	2,993	5,909	15,409	36,886	35,910	54,387	1,470	32	4,430	31,547
Michigan.....	10,762	69,026	7,634	15,510	44,045	107,898	103,026	149,464	3,378	92	13,474	118,873
Wisconsin.....	471	2,439	310	623	1,527	3,622	3,965	5,921	171	7	344	2,971
West North Central.....	841	4,044	467	912	2,066	7,064	6,964	10,000	151	7	429	2,577
Missouri.....	472	2,566	311	626	1,453	4,684	4,596	6,452	86	3	155	1,109
South.....	588	2,648	456	902	1,591	5,378	5,501	8,091	354	7	446	3,395
West.....	1,128	6,705	897	2,016	4,925	11,380	11,402	15,583	674	19	821	6,790
California.....	1,103	6,587	877	1,981	4,833	11,255	11,275	15,375	434	19	768	6,317

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—VALUE OF METALWORKING MACHINERY ATTACHMENTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Metalworking Machinery Attachments Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3545---	Attachments and accessories for machine tools and metalworking equipment, total.....	480,317	541,031
35451--	Small cutting tools for machine tools and metalworking equipment.....	314,918	291,042
3545112	Broaches.....	11,613	13,443
	Drills:		
3545121	Carbon steel.....	4,332	5,172
3545123	High-speed steel.....	45,515	41,468
3545125	Carbide, solid and tipped (including tips sold separately but excluding blanks).....	5,567	6,807
	Reamers:		
3545131	Carbon steel.....	2,831	3,584
3545133	High-speed steel.....	14,229	10,401
3545135	Carbide tipped (including tips sold separately but excluding blanks).....	6,282	5,881
	Gear hobs:		
3545141	Unground.....	3,920	3,502
3545145	Ground.....	3,879	3,592
	Gear cutters, other than hobbing:		
3545151	Carbon steel.....		7,330
3545154	High-speed steel and carbide tipped (including tips sold separately but excluding blanks).....	12,881	9,477
	Milling cutters:		
3545158	Form relieved cutters (including multiple thread-milling cutters).....	3,235	3,962
3545163	Solid-end mills.....	12,409	11,135
	Inserted blade cutters (including blades sold separately):		
3545164	High-speed steel.....	4,330	4,891
3545165	Carbide tipped (including tips sold separately but excluding blanks).....	8,569	10,735
	Other solid-milling cutters:		
3545166	High-speed steel.....	8,853	8,179
3545167	Carbide tipped (including tips sold separately but excluding blanks).....	3,266	3,544
	Turning, planer and shaper tools:		
	Form tools:		
3545171	High-speed steel.....	4,166	6,167
3545173	Carbide tipped (including tips sold separately but excluding blanks).....	15,565	16,812
3545176	Other turning, planer and shaper tools (including tips sold separately but excluding blanks).....	3,480	8,807
	Threading tools and dies:		
3545178	Ground thread taps.....	26,865	15,721
3545179	Cut thread taps.....	5,647	7,431
3545184	Dies.....	7,381	7,282
3545185	Chasers (excluding dieheads and tap bodies).....	8,176	10,409
3545189	Other threading tools and dies (including pipe-stocks).....	5,508	1,913
3545128	Countersinks and counter bores.....	6,937	
	Other cutting tools for machine tools and metalworking machinery:		
3545191	Carbon steel.....	2,893	47,413
3545193	High-speed steel.....	10,513	47,413
3545195	Carbide, solid and tipped (including tips sold separately but excluding blanks).....	20,338	
3545196	Carbide blanks.....	11,102	
3545100	Small cutting tools for machine tools, not specified by type.....	34,636	15,984
35452--	Machinist's precision tools, total.....	60,525	110,033
3545211	Comparators.....	7,191	4,517
	Fixed size limit gages (American Gage Design type-C-S8-51):		
3545213	Fixture type.....	3,895	
3545215	Thread type.....	6,078	62,180
3545217	Adjustable size limit gages.....	1,810	
3545221	Gage blocks.....	1,967	1,890
3545261	Dial indicators.....	4,658	7,198
3545298	Other machinist's precision tools (including micrometers, calipers and dividers).....	27,115	27,420
3545200	Precision measuring tools, not specified by type.....	7,811	6,828
35453--	Other attachment and accessories for machine tools and metalworking machinery, total.....	94,535	139,956
	Chucks:		
3545311	Drill.....	7,099	4,366
3545313	Lathe.....	5,266	8,211
3545315	Other chucks (including dieheads and tap bodies).....	2,465	6,382
3545321	Chuck holding devices (feeding fingers and collets, sleeves, sockets, drillheads, etc.).....	11,547	16,096
3545331	Tools for screw and automatic machines (box tools, hollow drills, work and tool holders, etc.) (except taps and dies).....	4,899	10,123
3545341	Other accessories and attachments for machine tools and metalworking machinery (except small cutting tools).....	48,641	69,743
3545351	Toolroom specialties (including levels, angle irons, plates, squares, sine bars, V-blocks, flats, vises, etc.).....	7,099	10,740
3545300	Attachments and accessories for machine tools, and metalworking machinery, not specified by type.....	7,519	14,295
3545000	Metalworking machinery attachments, not specified by type.....	10,339	...

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35B-4

MACHINE TOOLS INDUSTRY

(Industry Code 3541—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Machine Tools Industry shipped products valued at \$698 million, a decrease of 40 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 33 percent from 1954 to 1958 to a total of 54.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$431 million in 1958, a decrease of 42 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE MACHINE TOOLS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3541)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	54.2	81.0	-33
Payroll.....	Million dollars...	307.3	432.3	-29
Production workers:				
Number.....	Thousands.....	37.0	62.1	-40
Man-hours.....	Millions.....	71.4	133.2	-46
Wages.....	Million dollars...	185.1	302.7	-39
Value added by manufacture, unadjusted ².....	..do.....	472.8	788.2	-40
Value added by manufacture, adjusted ³.....	..do.....	431.2	743.6	-42
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	222.1	377.5	-41
Value of shipments ⁵.....	..do.....	698.0	1,171.5	-40
Capital expenditures, new.....	..do.....	19.8	37.7	-48
Number of establishments with 20 or more employees ⁶	Number.....	229	266	-14

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Machine Tools Industry includes establishments engaged primarily in the manufacture of power-driven machine tools and the rebuilding of machine tools. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Machine Tools Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Machine Tools Industry amounted to \$698 million. Of this total, \$536 million were products primary to the industry, \$118 million were products primary to other industries, and \$44 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$594 million of machine tools were shipped by all producers of these products. Of this total, \$536 million, or 90 percent, were shipped by plants classified in Industry 3541, Machine Tools, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE MACHINE TOOLS INDUSTRY (S.I.C. CODE 3541) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	54,165	307,278	36,970	71,394	185,100	472,789	431,189	697,996	19,756	229	80,959	788,219
New England.....	13,822	77,279	9,091	17,427	44,879	111,933	99,861	161,102	4,292	43	27,099	239,611
Vermont.....	3,289	16,828	2,152	3,662	9,516	18,942	18,528	28,668	903	4	4,644	45,037
Massachusetts.....	4,400	24,289	2,611	5,303	12,662	36,783	31,939	49,073	798	18	6,233	57,807
Connecticut.....	3,699	23,545	2,725	5,564	16,014	35,626	32,419	53,311	1,233	16	10,627	103,827
Middle Atlantic.....	6,314	33,683	4,591	8,643	22,408	48,219	48,009	69,385	1,558	27	7,656	69,282
New York.....	4,756	26,340	3,445	6,684	18,189	36,357	36,941	52,543	1,173	19	5,105	45,457
New Jersey.....	463	2,529	334	606	1,363	4,035	3,582	5,142	97	3	870	6,823
Pennsylvania.....	1,095	4,814	812	1,353	2,856	7,827	7,486	11,700	288	5	1,680	17,001
East North Central.....	32,118	186,335	21,957	42,627	111,744	294,854	265,980	438,991	13,174	138	43,736	463,389
Ohio.....	14,740	80,824	10,546	20,363	50,809	129,231	120,371	186,526	7,391	38	19,319	192,161
Indiana.....	1,344	7,909	992	2,158	5,903	14,311	12,627	20,130	(D)	5	1,585	17,831
Illinois.....	6,281	36,267	3,975	7,868	19,632	57,613	51,412	90,070	2,097	28	7,630	81,063
Michigan.....	5,519	36,069	3,833	7,358	21,302	54,184	45,174	82,226	1,095	46	9,044	101,418
Wisconsin.....	4,234	25,266	2,611	4,880	14,098	39,515	36,396	60,039	(D)	21	6,156	70,913
West North Central.....	868	4,720	592	1,210	2,829	6,622	6,464	11,604	186	8	1,197	6,943
South.....	452	2,147	339	635	1,312	5,014	4,886	7,230	221	7	505	3,459
West.....	591	3,114	400	852	1,928	6,147	5,989	9,684	325	6	764	5,532
California.....	452	2,348	301	667	1,532	4,608	4,465	7,523	197	4	729	5,287

D Withheld to avoid disclosing figures of individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF MACHINE TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Machine Tools Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3541---	Metal-cutting type machine tools, total.....	xxx	594,263	xxx	1,002,006
	Metal-cutting type machine tools:				
	As reported in the Census of Manufactures.....	xxx	1,473,750	xxx	879,020
	As reported on Census Annual Form MA-35W.....	xxx	1,462,934	xxx	...
	Boring machines, total.....	1,403	51,563	xxx	114,443
	Horizontal boring, drilling and milling machines:				
	Table type.....	215	11,114	486	20,662
	Floor type.....	47	5,215	126	11,325
	All other.....	17	1,527	32	1,726
	Vertical boring and turning mills (including vertical turret lathes).....	170	14,471	627	36,516
	Precision boring machines.....	428	9,971	1,146	26,488
	Jig boring machines.....	260	4,931	629	10,723
	All other boring machines.....	266	4,334	141	6,168
	Boring machines, not specified by type.....	xxx	...	xxx	831
	Drilling machines, total.....	xxx	*30,023	xxx	86,066
	Sensitive drilling machines (chuck fitted to spindle nose - No. 1, 2, 3, or 4 morse taper):				
	Bench type:				
	Average value under \$1,000.....	14,434	951	4,051	852
	Average value \$1,000 or over.....	38	88		
	Floor and pedestal type:				
	Average value under \$1,000.....	1,058	332	6,841	6,321
	Average value \$1,000 or over.....	1,374	2,507		
	Vertical (upright) drilling machines:				
	Standard single and multiple spindle vertical drilling machines (spindles independently driven):				
	Average value under \$1,000.....	2,770	1,039	821	1,805
	Average value \$1,000 and over.....	140	289		
	Heavy duty drilling machines.....	196	240	104	1,048
	Gang drills.....	79	198	384	769
	Radial drilling machines:				
	Plain:				
	Under 13" column.....	435	2,064	509	4,055
	13" column and over.....	145	3,169	562	9,026
	All other (including folding arm type).....	34	374	(2)	(2)
	Multiple spindle drilling machines (cluster of spindles driven from one central power unit) (including light industrial type).....	348	8,911	1,319	55,382
	Unit head and way type (including light industrial form)...	213	*4,883		
	Deep hole drilling machines, horizontal and vertical.....	80	557	75	1,837
	All other drilling machine.....	176	3,230	562	3,933
	Drilling machines, not specified by kind.....	xxx	*1,191	xxx	1,058
	Gear cutting and finishing machines, total.....	xxx	*22,661	xxx	48,111
	Gear hobbing machines.....	*227	*5,733	612	11,786
	Gear shapers and cutters (including planer type).....	157	4,406	1,856	34,925
	All other gear cutting and finishing machines.....	422	12,522		
	Gear cutting and finishing machines, not specified by type.....	xxx	...	xxx	1,400
	Grinding and polishing machines (except gear tooth grinding, lapping, polishing, and buffing machines), total...	xxx	*89,367	xxx	154,288
	External cylindrical grinding machines:				
	Plain.....	194	5,466	920	21,999
	Universal.....	247	4,599	584	7,216
	Roll grinders.....	29	*3,636	42	4,125
	All other external cylindrical grinding machines, including center less grinders.....	630	12,337	(3)	(3)
	Internal cylindrical grinding machines.....	(3)	(3)	806	17,915
	Surface grinding machines:				
	Rotary table type, horizontal and vertical.....	639	7,695	789	9,105
	Rectiprocating table type, horizontal and vertical spindle (including face grinders and light industrial types).....	2,358	10,270	3,638	17,254
	All other surface grinding machines (including planer type).....	(3)	(3)	142	1,519

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF MACHINE TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Metal-cutting type machine tools—Continued				
	Metal-cutting type machine tools—Continued				
	As reported on Census Annual Form MA-35W—Continued				
	Grinding and polishing machines (except gear tooth grinding, lapping, polishing, and buffing machines)—Continued				
	Bench, floor, and snag grinding machines:				
	Bench grinders.....	35,152	1,908	28,464	1,266
	Floor and snag grinders:				
	Average value less than \$500.....	2,145	344	1,960	856
	Average value \$500 or more.....	918	606		
	Tool and cutter grinding machines:				
	Universal:				
	Average value less than \$2,000.....	479	347	1,771	4,644
	Average value \$2,000 or more.....	458	2,196		
	Special:				
	Average value under \$1,000.....	893	279	1,571	6,161
	Average value \$1,000 or more.....	*1,062	*3,737		
	Polishing and buffing machines:				
	Floor type:				
	Average value under \$1,000.....	349	127	2,476	6,836
	Average value \$1,000 or more.....	568	*2,647		
	All other polishing and buffing machines.....	1,523	*2,839		
	Thread grinding machines.....	(3)	(3)	203	7,056
	Honing machines (except gear honing).....	646	2,437	(NA)	5,595
	Lapping machines (except gear lapping).....	287	1,665	393	1,927
	All other grinding machines (radius, spline, contour, plate, edge, jig grinders, crankshaft and other grinding machines, n.e.c.).....	6,618	*25,055	10,301	38,433
	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines) not specified by type.....	xxx	*1,177	xxx	2,381
	Lathes, total.....	16,971	*98,679	xxx	206,886
	Bench lathes (except bench turret lathes) (including light industrial type):				
	Average value under \$1,000.....	6,478	1,751	4,373	3,144
	Average value \$1,000 or over.....	222	496		
	Speed lathes.....	242	-146	455	255
	Engine lathes (manufacturing and small tool room lathes):				
	Up to and including 16" swing over the cross slide:				
	Average value under \$2,000.....	3,976	5,083	7,081	27,620
	Average value \$2,000 or over.....	1,586	13,640		
	17" to 23" swing over the cross slide inclusive.....	526	6,075	1,026	9,976
	24" to 36" swing over the cross slide inclusive.....	107	4,302	252	7,831
	Over 36" swing over the cross slide.....	18	2,431	33	3,087
	Gap lathes.....	47	1,192	53	926
	All other manufacturing and tool room lathes.....	(4)	(4)	49	1,412
	Turret lathes (except vertical turret lathes, but including hand screw (bar) machines):				
	Ram type:				
	Up to and including 1".....	141	*747	302	1,819
	Over 1".....	372	*6,602	1,275	15,567
	Bench and floor light duty type, with turret attachment.....	(4)	(4)	879	3,133
	Saddle type.....	142	*5,807	562	15,074
	Automatic chucking lathes:				
	Single spindle.....	304	*9,639	812	16,116
	Multi-spindle.....	152	*8,335	711	35,518
	Automatic between-center lathes.....	155	*5,092	442	9,906
	Automatic screw (bar) machines.....	901	*14,743	2,263	41,943
	All other lathes (including axle, crankshaft shell, boring and combination boring and turret lathes, etc.).....	1,614	10,891	447	12,781
	Lathes, not specified by type.....	xxx	*1,707	xxx	778
	Milling machines, total.....	11,004	89,315	xxx	122,518
	Bench and hand milling machines (industry knee type bench milling machines).....	476	703	1,000	2,172
	Knee type milling machines (except bench type):				
	Horizontal plain.....	499	5,631	1,827	23,757
	Horizontal universal.....	201	2,812	741	9,505
	Vertical.....	5,799	14,762	5,078	17,857

See footnotes at end of table.

Table 2.—QUANTITY AND VALUE OF MACHINE TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1952 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Metal-cutting type machine tools—Continued				
	Metal-cutting type machine tools—Continued				
	As reported on Census Annual Form MA-35W—Continued				
	Lathes—Continued				
	Bed type milling machines:				
	Single spindle.....	242	3,514	719	21,385
	Double spindle and special purpose.....	179	20,279	328	17,505
	Planer type milling machines.....	20	4,305	538	17,176
	Profiling machines and duplicators and die sinking machines.....	363	21,840		
	Thread milling machines.....	17	591	97	2,184
	All other milling machines (including spline, routers, cam engraving) and ram-type swivel head milling machines...	3,208	14,878	(NA)	9,258
	Milling machines, not specified by type.....	xxx	...	xxx	1,719
	Other metal cutting type machine tools (except those designed for home workshops, laboratories, etc.), total.....	xxx	81,326	xxx	146,708
	Broaching machines:				
	Internal broaching machines, horizontal and vertical.....	47	898	230	3,285
	Surface broaching machines, single and double ram and rotary.....	32	2,050	243	13,968
	All other broaching machines.....	30	1,429		
	Centering machines.....	62	449	46	352
	Keyseating machines.....			236	612
	Planers:				
	Openside.....	67	3,607	82	4,695
	Double housing.....			56	6,283
	All other planers (plate, pit, etc.).....				
	Shapers (except gear shapers):				
	Horizontal crank type:				
	Under 20" stroke.....	350	753	241	1,064
	20"-27" stroke (inclusive).....	96	899	323	2,196
	28" stroke and over.....	49	654	116	1,023
	All other shapers.....			111	1,409
	Sawing and cut-off machines (including light industrial types):				
	Abrasive cut-off saws:				
	Average value under \$1,000.....	942	506	926	632
	Average value \$1,000 or over.....	425	1,020		
	Power hack saws:				
	Average value under \$1,000.....	2,309	301	2,693	2,094
	Average value \$1,000 or over.....	699	1,063		
	Circular cold saws.....	39	353	87	1,119
	All other sawing and cut-off machines:				
	Average value under \$1,000.....	3,546	1,772	2,451	2,044
	Average value \$1,000 or over.....	1,303	5,127		
	Contour sawing and filing machines (including band saws):				
	Average value under \$1,000.....	1,936	516	5,615	5,218
	Average value \$1,000 or over.....	2,362	4,434		
	Tapping machines:				
	Average value under \$1,000.....	96	21	532	2,479
	Average value \$1,000 or over.....	292	1,882		
	Threading machines (except thread milling machines or thread grinding machines):				
	Pipe threading machines.....	1,114	3,592	663	970
	Other threading machines (including bolt threading).....			488	3,616
	Other metal cutting type machine tools ⁵	xxx	50,000	xxx	93,640
3541785	Parts for metal-cutting machine tools (sold separately).....	xxx	71,776	xxx	86,948
3541700	Other metal-cutting type machine tools (except those designed primarily for home workshops, etc.) not specified by type.....	xxx	...	xxx	6,293

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF MACHINE TOOLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
35418--	Metal-cutting type machine tools—Continued Machine tools designed primarily for home workshops, garages, etc. (metalworking and primarily metalworking only) (ex- cluding power-driven hand tools).....	xxx	12,921	xxx	9,283
3541911	Rebuilt metal-cutting type machine tools.....	xxx	16,961	xxx	15,012
3541000	Machine tools, not reported by type.....	xxx	18,855	xxx	5,450

*Revised.

NA Not available.

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on Census annual Form MA-35W. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual Form MA-35W. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to not more than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the annual survey.
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35W will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²Included with "All other drilling machines."³Included with "All other grinding machines."⁴Included with "All other lathes."

⁵Includes slotting machines (except screw and nut slotters); rifle-working machines, chamfering machines; facing machines; automatic roller cut-off machines; special axle-end facing machines; and other specially designed machine tools involving combinations of two or more processes, such as boring, reaming, drilling, facing, turning, and counterboring.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-35C-1

PAPER-INDUSTRIES MACHINERY INDUSTRY

(Industry Code 3554—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Paper-Industries Machinery Industry shipped products valued at \$309 million, an increase of 50 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 5 percent from 1954 to 1958 to a total of 15.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$124 million in 1958, an increase of 13 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PAPER-INDUSTRIES MACHINERY INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3554)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.7	15.0	+5
Payroll.....	Million dollars...	89.6	73.7	+22
Production workers:				
Number.....	Thousands.....	11.3	11.5	-2
Man-hours.....	Millions.....	22.9	23.7	-3
Wages.....	Million dollars...	58.0	50.1	+16
Value added by manufacture, unadjusted ².....	.....do.....	153.1	112.6	+36
Value added by manufacture, adjusted ³.....	.....do.....	124.4	109.8	+13
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	155.2	92.5	+68
Value of shipments ⁵.....	.....do.....	309.4	207.0	+50
Capital expenditures, new.....	.....do.....	4.8	4.9	-2
Number of establishments with 20 or more employees ⁶	Number.....	96	98	-2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Paper-Industries Machinery Industry includes establishments engaged primarily in the manufacture of machinery for the paper-pulp, paper, and paper-product industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishments companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Paper-Industries Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Paper-Industries Machinery Industry amounted to \$309 million. Of this total, \$252 million were products primary to the industry, \$20 million were products primary to other industries, and \$37 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$280 million of Paper-Industries Machinery Industry were shipped by all producers of these products. Of this total, \$252 million, or 90 percent, were shipped by plants classified in Industry 3554, Paper-Industries Machinery Industry, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE PAPER INDUSTRIES MACHINERY INDUSTRY (S.I.C. 3554) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	15,654	89,609	11,319	22,874	58,035	153,114	124,366	309,447	4,817	96	15,003	112,565
New England.....	3,623	19,260	2,511	5,149	11,504	30,123	30,785	54,569	1,570	28	3,859	30,642
New Hampshire.....	1,273	5,992	868	1,703	3,371	11,193	11,694	17,457	675	3	1,164	9,617
Massachusetts.....	2,209	12,524	1,542	3,239	7,689	17,951	18,126	35,379	846	21	2,558	20,103
Middle Atlantic.....	4,820	28,209	3,185	6,404	16,801	46,384	40,132	90,264	1,203	31	4,833	35,169
New York.....	2,326	13,458	1,517	3,030	7,841	23,042	17,861	48,182	446	15	2,782	18,255
New Jersey.....	1,528	9,967	1,030	2,069	5,841	12,312	13,586	26,371	664	9	1,133	10,193
Pennsylvania.....	966	4,784	638	1,305	3,119	11,030	8,685	15,711	93	7	918	6,721
East North Central.....	5,478	32,845	4,394	8,822	23,679	60,016	39,333	137,284	1,518	23	4,460	34,644
Ohio.....	1,307	7,820	877	1,702	4,668	11,481	8,925	27,401	556	6	1,280	11,858
Wisconsin.....	3,942	23,863	3,349	6,749	18,212	46,422	28,427	106,214	929	12	3,048	21,936
South Atlantic.....	1,131	5,974	804	1,619	3,857	10,927	8,687	17,757	407	6	1,091	5,844
Pacific.....	410	2,300	300	611	1,566	4,133	4,020	6,954	80	6	536	4,052

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

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Table 3.—QUANTITY AND VALUE OF PAPER INDUSTRIES MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Paper-Industries Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954*	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3554---	Pulp and paper industries machinery, total.....	xxx	279,759	xxx	174,651
3554011	Pulp and paper industries machinery (new): Wood preparation equipment (including barkers, chippers, knotters, splitters, chip screens, etc.).....	xxx	1,826	xxx	2,078
3554021	Pulp mill machinery: Grinders.....	99	2,879	(1)	(1)
3554023	Digesters.....	xxx	13,754	41	1,291
3554025	Deckers, thickeners, wet lap machines, bleaching equip- ment, pulp screens, washers, and savealls.....			xxx	115,543
3554027	Recovery room equipment.....			xxx	(2)
3554029	Other pulp mill machinery.....			(2)	(2)
3554031	Paper mill machinery: Beaters, jordans, and other stock preparation.....	xxx	14,779	xxx	8,485
3554041	Paper machines: Fourdriniers (including yankee machinery).....	39	63,201	(NA)	20,678
3554045	Calenders (including super-calenders).....	10	2,131	xxx	13,759
3554043	Cylinders.....	xxx	38,600	xxx	
3554049	Other paper machinery (including forming machines and fin- ishing machinery, but excluding calenders).....	xxx		xxx	
3554051	Paper and paperboard converting equipment: Bag making machines (including shipping sack machines)....	1,236	13,334	(NA)	5,068
3554052	Envelope making machines.....		17,634	527	3,448
3554053	Corrugated box machines.....	1,265		949	14,122
3554054	Box, carton and shipping container machines (except corru- gated box machines).....	941	7,115	(NA)	9,863
3554056	Toilet roll and napkin machines.....	125	3,230	222	2,175
3554059	Other paper and paperboard converting equipment (including drum, can, and tube machines).....	xxx	18,760	(NA)	31,750
3554071	Rebuilt pulp and paper industries machinery Rebuilt paper machines (including fourdrinier, yankee, cyl- inders, and forming machines).....	xxx	16,872	xxx	8,428
3554075	Other rebuilt pulp and paper industries, machinery.....	xxx	3,257	xxx	4,104
3554081	Parts and attachments for pulp mill, paper mill, and paper con- verting machinery and equipment (sold separately).....	xxx	43,393	xxx	30,547
3554000	Paper industries machinery, not specified by kind.....	xxx	14,184	xxx	3,312

*Revised

NA Not available.

xxx Not applicable.

¹Figures for grinders are combined with those for deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, savealls, and recovery room equipment.

²Included with other paper and paperboard converting equipment.

³Included other pulp mill machinery.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -35C-2

FOOD PRODUCTS AND MACHINERY INDUSTRY

(Industry Code 3551--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Food-Products Machinery Industry shipped products valued at \$455 million, an increase of 5 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 17 percent from 1954 to 1958 to a total of 27.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$269 million in 1958, an increase of 3 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE FOOD PRODUCTS MACHINERY INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3551)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	27.6	33.2	-17
Payroll.....	Million dollars...	151.3	152.5	-1
Production workers:				
Number.....	Thousands.....	18.1	23.7	-24
Man-hours.....	Millions.....	36.7	49.0	-25
Wages.....	Million dollars...	86.2	98.6	-13
Value added by manufacture, unadjusted ².....	..do.....	267.4	256.2	+4
Value added by manufacture, adjusted ³.....	..do.....	268.6	261.8	+3
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	185.1	168.6	+10
Value of shipments ⁵.....	..do.....	455.3	432.2	+5
Capital expenditures, new.....	..do.....	7.5	7.6	-1
Number of establishments with 20 or more employees ⁶	Number.....	238	261	-9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Food products Machinery Industry includes establishments engaged primarily in the manufacture of machinery for use by the food-products and beverage manufacturing industries in the preparation, canning, or packaging of food products. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Food-products Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Food-products Machinery Industry amounted to \$455 million. Of this total, \$331 million were products primary to the industry, \$56 million were products primary to other industries, and \$68 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$396 million of food-products machinery were shipped by all producers of these products. Of this total, \$332 million, or 84 percent, were shipped by plants classified in Industry 3551, Food-products Machinery while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE FOOD PRODUCTS MACHINERY INDUSTRY (S.I.C. CODE 3551) BY REGION AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	27,015	151,282	18,122	36,689	11,112	267,399	261,505	455,329	7,537	238	33,705	250,240
New England.....	3,119	17,960	1,641	3,346	8,433	30,409	29,880	42,914	533	11	2,678	22,733
Massachusetts.....	2,934	16,901	1,526	3,138	7,859	28,077	27,182	38,311	488	10	1,377	10,695
Middle Atlantic.....	4,578	24,631	3,138	6,559	14,622	37,884	38,041	70,449	1,807	49	4,888	34,499
New York.....	2,389	12,511	1,665	3,426	7,621	21,758	21,845	37,003	681	28	2,732	20,520
East North Central.....	11,576	65,416	7,497	15,016	35,676	124,274	122,460	203,841	2,291	86	16,090	130,525
Ohio.....	2,123	11,869	1,320	2,581	6,504	21,358	21,812	37,057	230	15	3,459	28,660
Indiana.....	742	3,833	444	880	2,145	7,037	6,990	11,471	398	4	649	6,009
Illinois.....	4,092	21,993	2,763	5,452	12,736	38,011	38,565	63,684	988	36	5,913	48,436
Michigan.....	2,227	15,126	1,399	2,778	6,935	35,949	32,659	52,787	199	12	3,093	25,104
Wisconsin.....	2,392	12,545	1,571	3,319	7,356	21,919	22,434	38,842	476	19	2,975	22,314
West North Central.....	2,763	13,880	1,894	3,799	8,238	26,695	27,074	49,167	631	24	2,522	18,709
Minnesota.....	735	3,754	468	1,009	2,151	6,043	6,215	12,899	94	8	734	5,448
Iowa.....	920	4,191	686	1,261	2,702	9,092	9,329	14,585	362	8	854	6,317
Missouri.....	659	3,618	397	796	1,989	6,818	6,327	12,724	89	4	797	5,343
South.....	2,947	14,284	2,082	4,228	9,508	25,174	25,909	44,741	419	39	3,973	26,969
Maryland.....	1,078	5,687	727	1,420	3,748	10,295	10,682	18,081	58	7	1,830	12,731
Georgia.....	621	2,837	450	953	1,832	4,927	5,173	8,117	99	9	540	2,512
Texas.....	281	1,403	222	495	1,058	2,485	2,475	4,372	61	6	217	1,170
West.....	2,632	15,111	1,870	3,741	9,735	22,963	25,201	44,217	1,856	29	3,052	22,804
California.....	2,223	12,750	1,569	3,123	8,231	19,500	21,528	37,684	1,766	25	2,547	19,312

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF FOOD-PRODUCTS MACHINERY SHIPPED BY ALL PRODUCERS FOR THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Food-Product Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3551---	Food products machinery and equipment, total.....	xxx	396,062	xxx	371,408
35511--	Dairy and milk products plant machinery and equipment.....	xxx	64,611	xxx	81,267
3551113	Bottling machinery for dairies:				
3551114	Filling machinery.....	(NA)	9,154		
3551115	Other dairy bottling machinery (including washing and sterilizing, capping, labeling, etc.).....	xxx	6,849	xxx	39,060
	Pasteurizers:				
3551141	Batch or vat-type.....	(NA)	1,783	(NA)	2,188
3551145	Continuous or plate-type.....	588	4,461	342	2,248
3551151	Homogenizers.....	398	2,613	604	1,845
3551173	Ice Cream freezers.....	(NA)	2,947	(NA)	3,898
3551183	Butter and cheese-products plant machinery and equipment.....	(NA)	1,966	(NA)	2,045
3551122	Cream separators (capacity over 1,500 pounds per hours) and clarifiers.....	xxx	34,405	(NA)	26,806
3551198	Other dairy and milk-products plant machinery and equipment...				
3551100	Dairy and milk-products plant machinery and equipment, not specified by kind.....	xxx	433	xxx	3,177
35512--	Bakery machinery and equipment.....	xxx	48,869	xxx	43,247
3551211	Dough mixers.....	(NA)	6,584	(NA)	3,810
	Bake ovens:				
3551231	Traveling tray.....	274	5,126	320	4,805
3551235	Other.....	(NA)	3,085	481	2,580
3551251	Slicing machines ¹	(NA)	1,176	1,426	2,371
3551271	Wrapping machines ¹	231	2,979	601	3,107
3551298	Other bakery machinery and equipment.....	(NA)	29,222	(NA)	23,540
3551200	Bakery machinery and equipment, not specified by kind.....	xxx	697	xxx	3,034
35513--	Bottling machinery, except dairy.....	xxx	35,815	xxx	31,659
3551311	Carbonators (beverage bottling).....	330	3,152	650	2,907
3551323	Filling-capping machines.....	567	7,866	753	7,468
3551333	Bottle washers.....	225	8,009	256	6,971
3551398	Other food bottling machinery, except dairy.....	(NA)	16,012	(NA)	13,776
3551300	Bottling machinery, except dairy, not specified by kind.....	xxx	776	xxx	537
35514--	Other industrial food-products machinery.....	xxx	172,864	xxx	165,858
3551411	Meat- and poultry-packing plant machinery and equipment (including dehairing, killing, stuffing, cooking, rendering, cutting, pressing, grinding, chopping, and canning machines, etc.).....	xxx	26,356	xxx	26,478
	Fruit- and vegetable-canning and packing machinery:				
3551423	Preparation machinery.....	(NA)	12,556		
3551425	Wrapping, filling and sealing machinery.....	(NA)	8,640	xxx	30,949
3551429	All other fruit and vegetable-canning and packing machinery...	xxx	11,612		
3551431	Flour mill and grain mill machinery.....	xxx	35,244	xxx	21,259
3551441	Sugar-plant machinery (including cane and beet mills, crushers, pulverizers, crystalizers, granulators, etc.).....	xxx	18,617	xxx	5,175
3551451	Other industrial food-products machinery.....	xxx	38,946	(NA)	38,699
3551481	Parts and attachments for industrial food-products machinery..	xxx	18,610	xxx	40,877
3551400	Other industrial food-products machinery, not specified by kind.....	...	2,283	xxx	2,421
35515--	Commercial food-products machinery ²	xxx	51,071	xxx	44,911
3551511	Slicers.....	21,075	7,279	29,662	9,070
3551521	Choppers, grinders, cutters, dicers, and similar machines....	33,738	11,324	28,398	8,918
3551531	Tenderizers.....	7,943	1,315	10,037	1,668
3551551	Mixers and whippers (except drink mixers).....	10,739	7,487	13,431	7,079
3551598	Other commercial food-preparation machines, power-driven.....	(NA)	16,754	(NA)	9,077
3551581	Parts and attachments for commercial food-preparation machines	xxx	4,995	xxx	6,851
3551500	Commercial food-products machinery, not elsewhere classified, not specified by kind.....	xxx	1,917	xxx	2,248
3551000	Food-products machinery, not specified by kind.....	xxx	22,832	xxx	4,466

NA Not available.

xxx Not applicable.

¹For combination slicing and wrapping machines the number and value of slicing units are included with slicing machines and the number and value of wrapping units with wrapping machines.

²Includes power-driven machines for use by hotels, restaurants, institutions, meat markets, butcher shops, food-product stores, and similar commercial organizations.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35C-3

WOODWORKING MACHINERY INDUSTRY

(Industry Code 3553—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Woodworking Machinery Industry shipped products valued at \$214 million, an increase of 19 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 2 percent from 1954 to 1958 to a total of 12.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$112 million in 1958, an increase of 10 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE WOODWORKING MACHINERY INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3553)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	12.2	12.0	+2
Payroll.....	Million dollars...	63.2	53.8	+18
Production workers:				
Number.....	Thousands.....	8.0	8.8	-9
Man-hours.....	Millions.....	16.0	17.8	-10
Wages.....	Million dollars...	36.8	35.2	+4
Value added by manufacture, unadjusted ².....	..do.....	122.4	101.7	+20
Value added by manufacture, adjusted ³.....	..do.....	112.5	102.5	+10
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	88.2	73.9	+19
Value of shipments ⁵.....	..do.....	213.5	178.8	+19
Capital expenditures, new.....	..do.....	6.9	4.3	+60
Number of establishments with 20 or more employees ⁶	Number.....	95	96	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Woodworking Machinery Industry includes establishments engaged primarily in the manufacture of machinery for sawmills, planing mills, cabinet and furniture makers and veneer workers; machinery for home, shop, professional craftsmen; and portable electric woodworking tools. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Woodworking Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Woodworking Machinery Industry amounted to \$214 million. Of this total, \$153 million were products primary to the industry, \$40 million were products primary to other industries, and \$21 million were receipts for miscellaneous activities. The industry shipments of primary products represented 79 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$177 million of woodworking machinery were shipped by all producers of these products. Of this total, \$152 million, or 86 percent, were shipped by plants classified in Industry 3553, Woodworking Machinery, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE WOODWORKING MACHINERY INDUSTRY (S.I.C. CODE 3553), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em- ployees, number	Value added by manufac- ture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	12,172	63,191	8,005	16,027	36,792	122,407	112,468	213,534	6,923	95	11,973	101,721
New England.....	1,548	8,068	683	1,480	3,299	15,452	10,661	23,858	652	6	1,682	18,395
Middle Atlantic.....	1,068	5,820	655	1,304	3,015	10,869	11,038	17,423	187	13	1,354	12,509
East North Central.....	3,987	20,596	2,643	5,320	12,362	38,010	33,852	69,959	3,606	31	3,838	33,100
Ohio.....	666	3,337	444	871	1,886	7,437	6,965	13,313	2,283	6	449	6,621
Illinois.....	1,405	7,259	909	1,827	4,329	12,663	9,116	25,219	819	7	691	6,751
Michigan.....	741	3,897	491	925	2,423	6,259	6,501	11,469	239	6	1,323	10,401
Wisconsin.....	952	4,973	658	1,398	3,050	9,235	9,121	14,801	224	8	1,172	7,513
West North Central.....	268	1,392	189	375	749	2,261	2,264	5,047	35	4	247	1,491
South.....	2,022	8,460	1,451	2,767	5,162	22,739	23,118	42,605	1,153	18	1,304	8,633
North Carolina.....	608	2,254	397	758	1,263	11,344	11,335	18,500	253	6	248	1,338
Tennessee.....	585	2,600	403	799	1,638	2,468	2,786	5,368	113	3	422	1,553
West.....	3,279	18,835	2,384	4,781	12,205	33,076	31,535	54,642	1,290	23	3,545	27,591
Oregon.....	829	4,796	562	1,116	2,812	9,386	9,036	14,972	(D)	11	783	7,599
California.....	1,881	10,740	1,397	2,869	7,214	18,609	17,405	30,311	(D)	5	2,220	15,748

D withheld to avoid disclosing figures of individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF WOODWORKING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Woodworking Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3553----	Woodworking machinery.....	xxx	176,922	xxx	163,431
35531--	Woodworking machinery (except machinery designed Primarily for home workshops, garages, and service shops).....	xxx	147,646	xxx	136,208
3553112	Sawmill equipment.....	xxx	15,780	xxx	12,832
3553115	Veneer and plywood-making; woodbox and crate-making machinery.....	xxx	7,637	xxx	6,618
3553162	Sawing machinery (except sawmill equipment and chain saws)...	43,007	13,614	34,435	9,885
3553167	Chain saws.....	329,164	43,867	223,442	40,297
3553171	Jointers, matchers, molders, mortisers, shapers, and tenoners (except power-driven hand-held tools).....	(NA)	7,788	(NA)	7,719
3553181	Parts, attachments, and accessories for woodworking machinery (sold separately).....	xxx	38,334	xxx	34,215
3553198	Other woodworking machinery (except power-driven hand-held tools) (including lathes, planing machines, and surfacing machines, except hand-held).....	(NA)	13,150	(NA)	21,792
3553100	Woodworking machinery (except homeworkshop) not specified by kind.....	xxx	7,476	xxx	2,850
35532--	Woodworking machinery (or primarily woodworking) (designed primarily for home workshops, garages and service shops) (excluding power-driven hand tools).....	xxx	25,685	xxx	27,223
3553221	Saws (including circular).....	308,631	15,144	412,258	13,266
3553281	Parts, attachments, and accessories for machine tools and wood- working machines designed primarily for home workshops, etc. (sold separately) (except parts for power-driven hand tools)...	xxx	2,411	xxx	2,895
3553298	Other machine tools and woodworking machines designed primarily for home workshops etc. (except power-driven hand tools) (including lathes, drilling machines, jointers, planers and shapers).....	(NA)	6,693	(NA)	9,768
3553200	Woodworking machinery designed primarily for home workshops, not specified by kind.....	xxx	1,437	xxx	1,294
3553000	Woodworking machinery, not specified by kind.....	xxx	3,591	xxx	xxx

NA Not available.

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-350-4

PRINTING-TRADES MACHINERY INDUSTRY

(Industry Code 3555—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Printing-Trades Machinery and Equipment Industry shipped products valued at \$311 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 2 percent from 1954 to 1958 to a total of 21.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$188 million in 1958, an increase of 5 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PRINTING-TRADES MACHINERY INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3555)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.5	22.0	-2
Payroll.....	Million dollars...	119.6	110.7	+8
Production workers:				
Number.....	Thousands.....	15.3	16.4	-7
Man-hours.....	Millions.....	30.3	33.0	-8
Wages.....	Million dollars...	78.0	74.5	+5
Value added by manufacture, unadjusted ².....	...do.....	190.7	173.8	+10
Value added by manufacture, adjusted ³.....	...do.....	188.1	179.0	+5
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	112.0	95.5	+17
Value of shipments ⁵.....	...do.....	310.6	276.3	+12
Capital expenditures, new.....	...do.....	8.5	6.6	+29
Number of establishments with 20 or more employees ⁶	Number.....	119	109	+9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Printing-Trades Machinery and Equipment Industry includes establishments engaged primarily in the manufacture of machinery and equipment used by the printing and book-binding trades. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Printing-Trades Machinery and Equipment Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Printing-Trades Machinery and Equipment Industry amounted to \$311 million. Of this total, \$250 million were products primary to the industry, \$15 million were products primary to other industries, and \$46 million were receipts for miscellaneous activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$270 million of printing-trades machinery and equipment were shipped by all producers of these products. Of this total, \$250 million, or 92 percent, were shipped by plants classified in Industry 3555, Printing-Trades Machinery and Equipment, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PRINTING-TRADES MACHINERY INDUSTRY (S.I.C. CODE 3555), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	21,468	119,607	15,278	30,291	78,014	190,680	188,095	310,577	119	8,490	21,960	173,805
New England.....	1,879	9,875	1,321	2,815	6,565	11,528	14,115	20,784	13	624	1,766	11,590
Middle Atlantic.....	10,719	59,786	7,640	15,076	39,498	96,478	90,767	151,846	53	5,392	10,812	81,494
New York.....	6,181	35,017	4,233	8,791	23,088	60,634	56,466	88,635	24	3,534	6,643	52,116
New Jersey.....	2,453	15,648	1,806	3,732	10,401	23,383	20,651	40,965	16	1,249	2,526	17,562
Pennsylvania.....	2,085	9,121	1,601	2,553	6,009	12,461	13,650	22,246	13	609	1,642	11,815
East North Central.....	7,685	44,253	5,516	10,859	28,404	72,768	72,876	121,907	38	2,117	8,403	73,864
Ohio.....	1,953	10,861	1,406	2,857	7,183	23,212	20,209	35,721	9	443	2,549	21,354
Illinois.....	5,142	30,193	3,696	7,182	19,237	44,168	47,690	77,253	23	1,585	4,947	45,802
Michigan.....	393	2,284	281	528	1,391	3,699	3,785	5,882	4	51	476	3,605
West North Central.....	340	1,502	217	418	888	2,899	2,953	4,380	4	80	255	1,657
South.....	441	1,843	315	619	1,264	3,130	3,514	5,860	6	91	384	2,388
West.....	404	2,348	269	504	1,395	3,877	3,870	5,800	5	186	338	2,809
California.....	386	2,302	258	490	1,370	3,817	3,801	5,620	5	179	333	2,783

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF PRINTING-TRADES MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Printing-Trades Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (No. of complete presses)	Value (\$1,000)	Quantity (No. of complete presses)	Value (\$1,000)
3555--	Printing-trades machinery and equipment-total.....	xxx	270,293	xxx	228,774
	Presses:				
	Letter press (typographical, relief):				
	Sheet fed:				
3555011	Platen.....			612	1,140
3555012	High-speed cylinder (job) up to and including 22" by 28" (including vertical).....	1,131	3,899	859	5,644
3555013-15	Cylinder presses over 22" by 28" and rotary letter presses (sheet-fed).....	152	6,533	273	12,114
3555018	Roll or web-fed:				
3555019	Rotary letter press.....	82	7,664	52	8,177
	Newspaper high-speed rotary and flat-bed and high-speed platen.....	229	24,233	(NA)	16,076
	Offset lithographic:				
3555021-26	Sheet fed:				
3555027	Single color.....	831	22,736	660	8,886
3555029	Multicolor.....	202	10,723	160	12,549
3555032	Web-fed.....	64	8,057	54	2,202
3555041	Gravure, sheet-fed and web-fed.....	(NA)	10,243	42	3,197
	Other presses (including proof and rebuilt).....			(NA)	10,413
	Typesetting machinery and equipment:				
3555051	Typesetting and typecasting machines.....	2,350	118,428	2,044	16,058
3555055	Matrices.....	xxx	13,284	xxx	11,926
3555059	Other typesetting equipment.....	xxx	(1)	xxx	3,697
3555061	Electrotyping machinery and equipment.....	xxx	1,630	xxx	2,458
3555063	Stereotyping machinery and equipment.....	xxx	3,829	xxx	3,889
3555065	Photoengraving and lithographing equipment (except cameras).....	xxx	4,599	xxx	3,736
3555067	Bookbinding machinery and equipment (including cutting, folding, gathering, inserting, ruling, etc.).....	xxx	19,788	xxx	19,916
3555069	Engravers materials and equipment (including metal plates, wood blocks, lithographic stones, etc.).....	xxx	6,353	xxx	8,320
	Other printing machinery and equipment:				
3555072	Ink rollers and printers' rolls and platen.....	xxx	21,237	xxx	13,444
3555075	Foundry type, rules, leads, slugs, borders, and ornaments.....	xxx	4,524	xxx	4,564
3555081	Parts, attachments, and accessories for printing-trades machinery	xxx	32,606	xxx	35,784
3555098	Other printing machinery and equipment.....	xxx	25,150	xxx	23,550
3555000	Printing-trades machinery, not specified by kind.....	xxx	24,777	...	...

NA Not available.

xxx Not applicable.

¹Figure for "Other type setting equipment" valued at less than \$1 million is included with "Typesetting and typecasting machines."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35C-5

TEXTILE MACHINERY INDUSTRY

(Industry Code 3552—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Textile Machinery Industry shipped products valued at \$375 million, an increase of 8 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 34.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$213 million in 1958, a decrease of 2 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE TEXTILE MACHINERY INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3552)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	34.2	36.6	-7
Payroll.....	Million dollars...	154.0	145.3	+6
Production workers:				
Number.....	Thousands.....	25.5	28.1	-9
Man-hours.....	Millions.....	51.4	55.7	-8
Wages.....	Million dollars...	101.5	98.7	+3
Value added by manufacture, unadjusted ².....	..do.....	219.2	217.6	+1
Value added by manufacture, adjusted ³.....	..do.....	213.0	216.6	-2
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	153.8	127.2	+21
Value of shipments ⁵.....	..do.....	374.6	347.1	+8
Capital expenditures, new.....	..do.....	8.5	8.5	...
Number of establishments with 20 or more employees ⁶	Number.....	210	210	-0

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Textile Machinery Industry includes establishments engaged primarily in the manufacture of machinery for textile industries. This report does not include figures for administrative offices, warehouse, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Textile Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Textile Machinery Industry amounted to \$375 million. Of this total, \$304 million were products primary to the industry, \$46 million were products primary to other industries, and \$25 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$322 million of textile machinery were shipped by all producers of these products. Of this total, \$304 million, or 94 percent, were shipped by plants classified in Industry 3552, Textile Machinery, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE TEXTILE MACHINERY INDUSTRY (S.I.C. CODE 3552), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employ-ees ⁵	All em-ployees, number	Value added by manufac-ture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	34,186	153,954	25,521	51,433	101,511	219,173	212,977	374,627	8,514	210	36,595	217,560
New England.....	16,286	72,970	11,993	23,958	47,988	104,355	97,415	173,862	4,125	68	18,273	102,426
New Hampshire.....	2,145	9,849	1,554	3,260	6,675	18,640	17,264	23,315	499	6	2,270	14,798
Massachusetts.....	10,186	44,455	7,412	14,348	28,685	58,406	56,840	100,943	2,794	35	11,271	61,782
Rhode Island.....	1,804	7,950	1,369	2,640	5,187	15,331	14,304	21,895	308	16	2,126	12,333
Middle Atlantic.....	8,318	41,529	6,096	12,070	27,373	55,379	55,057	92,719	1,826	49	10,814	71,767
New York.....	923	4,991	716	1,478	3,483	8,283	8,230	14,149	343	10	906	5,999
New Jersey.....	1,372	7,196	1,072	2,221	4,784	9,974	11,319	18,195	221	11	1,786	13,757
Pennsylvania.....	6,023	29,342	4,308	8,371	19,106	37,122	35,508	60,375	1,262	28	8,121	52,010
North Central.....	1,148	5,615	760	1,496	3,398	7,740	8,423	11,875	220	7	1,118	8,789
Illinois.....	869	4,419	541	1,051	2,497	5,516	5,998	8,258	135	2	920	7,788
South and West.....	8,434	33,840	6,672	13,909	22,752	51,699	52,082	96,171	2,343	86	6,389	34,576
North Carolina.....	4,017	16,040	2,988	6,227	10,066	23,988	23,455	42,838	1,100	41	2,970	17,667
Georgia.....	973	3,966	781	1,591	2,754	6,001	6,245	11,673	326	14	885	4,805

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF TEXTILE MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Textile Machinery Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3552---	Textile-industries machinery, total.....	.....	xxx	322,382	xxx	304,053
35521--	Textile machinery, total.....	.....	xxx	143,962	xxx	143,315
	Fiber-to-fabric machinery:					
	Cleaning and opening machinery:					
3552113	Picker machines.....	No. of machines.....	618	1,989	215	803
3552119	Garnetting and other.....	.....do.....	(NA)	2,565	(NA)	4,759
3552122	Carding machines.....	.....do.....	265	2,422	170	1,421
3552132	Combing machines.....	.....do.....	236	2,774	(NA)	(¹)
3552136	Drawing and roving frames.....	No. of frames.....	1,168	11,057	² 1,692	22,037
	Spinning and twisting frames:					
3552142	Spinning frames.....	.....do.....	852	11,172	1,211	13,347
3552146	Total no. of spindles.....	Total no. of spindles.....	166,840	xxx	304,500	xxx
3552147	No. of frames.....	No. of frames.....	552	7,874	747	7,135
3552148	Total no. of spindles.....	Total no. of spindles.....	72,313	xxx	120,080	xxx
	Yarn preparing machines:					
3552151	Winding machines (skein, spool, bobbin, quill, cone, etc.).....	.....	(NA)	14,462	(NA)	11,557
3552153	Other yarn preparing machines (beaming, warping, warping, warp drawing-in, slashing, etc.).....	.....	(NA)	4,183	xxx	5,173
3552155	Other fiber-to-fabric machinery.....	.....	(NA)	4,183	(NA)	¹ 10,136
	Fabric machinery:					
3552164	Power looms (including looms operating without shuttles).....	.....	(NA)	10,620	(NA)	17,287
3552168	Knitting machines:					
3552171	Hosiery (circular and full fashioned).....	No. of machines.....	5,184	20,486	2,711	22,710
3552174	Other knitting machines.....	.....do.....	964	6,892	1,047	6,865
3552175	Other fabric machinery (including lace, embroidery, braiding, and tufting machinery; and hand looms).....	.....do.....	(NA)	4,525	(NA)	2,244
3552185	Bleaching, dyeing, and finishing machinery.....	.....do.....	xxx	11,127	xxx	17,901
3552187	Machinery for drying stock, yarn, cloth, etc.....	.....do.....	xxx	4,419	xxx	3,817
3552198	Textile-industries machinery, n.e.c., (except parts, attachments and accessories).....	.....do.....	xxx	17,759	xxx	16,123
3552100	Textile machinery, not specified by kind.....	.....do.....	xxx	9,636	...	...
35522--	Parts and attachments for textile machinery, total.....	.....do.....	xxx	168,639	xxx	160,738
	Textile-industries machinery, parts, attachments, and accessories:					
3552211	Textile machinery turnings and shapes (bobbins, shuttles, spools, picker sticks, etc.).....	.....do.....	xxx	23,939	xxx	25,178
	Parts, attachments, and accessories for fiber-to-fabric machinery:					
3552222	Card clothing.....	1000 sq. feet.....	1,747	7,121	1,209	4,855
3552231	Other parts, attachments, and accessories for fiber-to-fabric machinery, except card clothing.....	.....	xxx	38,980	xxx	11,733
3552241	Parts, attachments, and accessories for power looms.....	.....	xxx	38,588	xxx	41,583
3552245	Parts, attachments, and accessories for knitting machines.....	.....	xxx	10,988	xxx	25,294
3552253	Parts, attachments, and accessories for fabric machinery (except parts, attachments, and accessories for power looms and knitting machines).....	.....	xxx	7,730	xxx	7,481
3552271	Parts, attachments and accessories for bleaching, dyeing, and finishing machinery.....	.....	xxx	6,135	xxx	44,614
3552298	Textile-industries machinery parts, attachments, and accessories, not elsewhere classified.....	.....	xxx	26,240	xxx	...
3552200	Textile-industries machinery parts, attachments, and accessories, not specified by kind.....	.....	xxx	8,918	xxx	...
3552000	Textile industries machinery, including parts and attachments, not specified by kind.....	.....	xxx	9,781	xxx	...

NA Not available.

xxx Not applicable.

¹Figures for "Combing machines" are included with "Other fiber to fabric machinery."²Represents "Drawing frames" only. Figures for "Roving frames" are included with "Other fiber to fabric machinery."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35C-6

SPECIAL-INDUSTRY MACHINERY, N.E.C., INDUSTRY

(Industry Code 3559—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Special-Industry Machinery, Not Elsewhere Classified, Industry shipped products valued at \$762 million, an increase of 22 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 8 percent from 1954 to 1958 to a total of 51 thousand employees in 1958. Value added by manufacture in the industry amounted to \$430 million in 1958, an increase of 22 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SPECIAL-INDUSTRY MACHINERY, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3559)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	51.0	47.0	+8
Payroll.....	Million dollars...	275.1	218.6	+26
Production workers:				
Number.....	Thousands.....	34.0	34.0	0
Man-hours.....	Millions.....	69.3	69.3	0
Wages.....	Million dollars...	163.3	141.2	+16
Value added by manufacture, unadjusted ².....	..do.....	431.8	352.9	+22
Value added by manufacture, adjusted ³.....	..do.....	430.0	353.9	+22
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	320.6	261.4	+23
Value of shipments ⁵.....	..do.....	762.0	625.1	+22
Capital expenditures, new.....	..do.....	17.4	13.7	+27
Number of establishments with 20 or more employees ⁶	Number.....	385	330	+17

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Special-Industry Machinery, N.E.C., Industry includes establishments engaged primarily in the manufacture of special-industry machinery, not elsewhere classified, such as smelting and refining equipment, cement-making, clay working, glass-making, hat-making, incandescent-lamp making, leather working, paint-making, rubber-working, cigar and cigarette-making, shoe-making, and stone-working machinery. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Special-Industry Machinery, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Special-Industry Machinery, N.E.C. Industry amounted to \$762 million. Of this total, \$553 million were products primary to the industry, \$121 million were products primary to other industries, and \$88 million were receipts for miscellaneous activities. The in-

dustry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 81 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$704 million of special industry machinery, n.e.c. were shipped by all producers of these products. Of this total, \$553 million, or 79 percent, were shipped by plants classified in Industry 3559, Special-Industry Machinery, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE SPECIAL INDUSTRY MACHINERY, N.E.C., INDUSTRY (S.I.C. CODE 3559) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	50,994	275,079	34,025	69,329	163,345	431,792	429,954	761,997	17,431	385	47,007	352,943
New England.....	7,015	38,389	4,919	9,764	24,383	60,281	57,887	91,709	1,782	36	9,196	62,023
Massachusetts.....	4,238	22,948	2,910	5,709	14,768	31,768	32,134	46,645	955	22	6,276	37,847
Connecticut.....	2,327	13,475	1,695	3,377	8,304	25,966	23,277	40,454	787	9	2,253	21,022
Middle Atlantic.....	14,797	78,334	9,925	20,378	48,501	120,081	118,429	211,225	4,450	110	13,311	97,736
New York.....	5,893	31,968	4,071	8,526	21,071	45,647	45,919	80,166	1,552	37	3,771	28,162
New Jersey.....	4,321	22,581	2,853	6,090	13,308	37,604	38,727	67,711	1,768	39	4,397	34,661
Pennsylvania.....	4,583	23,785	3,001	5,762	14,122	36,830	33,783	63,348	1,130	34	5,142	34,912
East North Central.....	16,177	93,817	10,595	21,227	52,360	149,113	147,653	266,024	6,576	138	13,884	117,018
Ohio.....	8,038	44,180	5,556	10,750	27,034	70,867	69,573	117,138	3,209	60	6,815	56,332
Indiana.....	2,161	12,817	1,360	2,615	6,077	17,650	18,127	31,229	1,181	7	1,274	11,258
Illinois.....	2,508	15,667	1,500	3,255	7,807	26,349	27,391	48,758	957	31	2,546	20,621
Michigan.....	2,734	17,321	1,682	3,614	9,315	27,446	25,623	58,247	811	27	2,508	21,866
Wisconsin.....	736	3,832	497	993	2,127	6,801	6,939	10,652	418	13	739	6,939
West North Central.....	1,620	7,210	883	1,783	3,455	9,048	11,142	21,836	1,176	19	1,069	7,560
Missouri.....	825	3,210	310	490	984	2,552	3,824	8,891	105	5	603	4,392
South Atlantic.....	3,851	19,779	2,416	4,836	10,331	26,705	27,875	47,949	1,103	28	3,732	23,797
Maryland.....	1,091	5,927	634	1,371	2,930	9,056	9,735	17,702	52	5	1,117	7,830
Virginia.....	435	1,404	278	444	891	1,668	1,729	3,467	30	4	216	1,549
North Carolina.....	347	1,384	274	497	929	2,574	2,646	4,855	92	5	314	1,745
Georgia.....	1,021	4,451	635	1,292	2,343	7,911	8,483	12,841	263	8	1,052	6,627
East South Central.....	1,126	5,277	918	1,883	3,932	9,146	8,940	15,040	286	9	888	6,226
Alabama.....	774	3,502	668	1,340	2,847	5,504	5,485	9,293	217	3	620	3,818
West South Central.....	3,306	15,526	2,217	4,660	9,056	28,115	29,022	55,350	900	19	2,733	19,822
Oklahoma.....	476	2,024	369	621	1,338	2,769	2,832	7,309	136	6	127	766
Texas.....	2,677	12,778	1,832	4,011	7,667	24,006	24,769	45,022	736	11	2,449	18,283
West.....	3,102	16,747	2,152	4,798	11,327	29,303	29,106	52,864	1,158	26	2,190	18,758
California.....	2,719	14,742	1,869	4,026	9,738	24,672	23,453	44,048	896	22	1,719	14,947

¹Each producing State not shown separately in the above table was withheld: either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF SPECIAL-INDUSTRY MACHINERY, N.E.C. SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Special Industry Machinery, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3559---	Industrial machinery, total.....	xxx	704,213	xxx	604,535
	Special industry machinery:				
3559111	Chemicals manufacturing industries machinery and equipment.....		118,553	xxx	102,794
35592	Foundry machinery and equipment, total.....	xxx	52,639	xxx	62,480
3559231	Molding machines.....	1,261	13,693	1,401	7,074
3559251	Blast cleaning equipment.....	xxx	36,519	xxx	13,383
3559298	Other foundry machinery (including core making machines).....	xxx		xxx	40,390
3559200	Foundry machinery and equipment, not specified by kind.....	xxx	2,427	xxx	1,633
35593--	Plastics-working machinery and equipment, total.....	xxx	50,818	xxx	37,610
3559311	Compression molding machines.....	203	2,502	426	3,780
3559331	Extrusion molding machines.....	549	7,407	531	5,333
3559351	Injection molding machines.....	829	20,416	775	13,777
3559398	Other plastics-working machinery and equipment.....	xxx	16,894	xxx	14,920
3559300	Plastics-working machinery and equipment, not specified by kind.....	xxx	3,599	xxx	...
35594--	Rubber-working machinery and equipment, total.....	xxx	53,807	xxx	52,521
3559411	Banbury and mill-mixing machinery and warming-up machinery....	xxx	8,335	xxx	8,002
3559431	Extruding machinery.....	180	4,017	179	2,579
3559441	Vulcanizing presses.....	1,112	10,224	977	14,981
3559451	Tire-building equipment (except tire molds).....	xxx	5,987	xxx	7,283
3559421	Calendering machines.....	21	1,376		
3559471	Tire recapping and repairing machinery and equipment (including recapping vulcanizers).....	xxx	14,867	xxx	19,676
3559498	Other rubber-working machinery excluding tire molds.....	xxx	4,879		
3559400	Rubber-working machinery and equipment, not specified by kind.....	xxx	4,122	xxx	...
3559511	Petroleum refinery machinery and equipment.....	xxx	20,672	xxx	18,893
35597--	Other special industry machinery and equipment, total ¹	xxx	373,407	xxx	319,968
	Tobacco manufacturing machinery and equipment:				
3559713	Cigarette-making machines and cigar-making machines.....	xxx	14,895	1,117	9,538
3559719	Other tobacco manufacturing machinery and equipment.....	xxx		xxx	4,876
3559721	Clay working machinery and equipment (brick, tile, and ceramics).....	xxx	10,575	xxx	7,892
3559731	Cement-making machinery and equipment other than cement kilns.....	xxx	3,827	xxx	4,272
	Concrete products machinery and equipment:				
3559741	Concrete block machines.....	(NA)	6,660	(NA)	11,762
3559749	Other concrete-products machinery and equipment (including concrete-pipe making machines).....	xxx	16,434	xxx	10,902
	Glass-making machinery and equipment:				
3559751	Bottle-forming machines.....	(NA)	10,938	xxx	16,581
3559755	Other glass-making machinery and equipment other than lehrs.....	(NA)	10,504		
3559762	Shoemaking and repairing machinery and equipment (including sole stitching machines).....	(NA)	25,350	xxx	21,753
	Cotton-ginning machinery and equipment:				
3559771	Cotton gins.....	xxx	1,352	xxx	27,134
3559775	Other cotton ginning machinery and equipment.....	xxx	39,635		
3559781	Metal cleaning, degreasing, finishing, drying machinery and equipment.....	(NA)	27,799		
3559785	Electronic tube-making machinery and equipment.....	(NA)	7,969		
3559798	Other special industrial machinery and equipment (including incandescent lamp making, paint-making, stone-working, hat-making, leather-working, jewelers, pharmaceutical, ammunition and explosives loading machinery and equipment, etc.).....	xxx	187,294	xxx	193,575
3559700	Other special industry machinery and equipment, not specified by kind.....	xxx	10,175	xxx	11,683
3559000	Special industry machinery, not specified by kind.....	xxx	34,317	xxx	10,269

NA Not available.

xxx Not applicable.

¹Some equipment in this product class is leased rather than sold out right. For leased equipment, estimates of the value of products produced were reported. These estimates approximate the value of the products had they been sold out right and are based on market values of the products, tax or insurance valuations, etc.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35D-1

POWER-TRANSMISSION EQUIPMENT INDUSTRY

(Industry Code 3566—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Power-Transmission Equipment Industry shipped products valued at \$738 million, an increase of 18 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 1 percent from 1954 to 1958 to a total of 49 thousand employees in 1958. Value added by manufacture in the industry amounted to \$463 million in 1958, an increase of 19 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE POWER TRANSMISSION EQUIPMENT INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3566)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	49.0	49.6	-1
Payroll.....	Million dollars...	267.3	231.6	+15
Production workers:				
Number.....	Thousands.....	35.4	37.9	-7
Man-hours.....	Millions.....	69.1	76.2	-9
Wages.....	Million dollars...	172.2	160.0	+8
Value added by manufacture, unadjusted ²	do.....	473.1	393.6	+21
Value added by manufacture, adjusted ³	do.....	462.7	388.3	+19
Cost of materials, fuel, electricity, and contract work ⁴	do.....	259.3	224.6	+15
Value of shipments ⁵	do.....	738.0	624.6	+18
Capital expenditures, new.....	do.....	23.4	15.0	+56
Number of establishments with 20 or more employees ⁶	Number.....	265	263	+1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Power-Transmission Equipment Industry includes establishments engaged primarily in the manufacture of plain bearings, speed changers, gears and industrial high speed driver and other mechanical power-transmission equipment (except automobile, truck and bus). This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Power-Transmission Equipment Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Power-Transmission Equipment Industry amounted to \$738 million. Of this total, \$590 million were products primary to the industry, \$101 million were products primary to other industries, and \$47 million were receipts for miscellaneous activities. The industry shipments of primary products represented 85 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$717 million of Power-Transmission Equipment were shipped by all producers of these products. Of this total, \$590 million, or 82 percent, were shipped by plants classified in Industry 3566, Power Transmission Equipment, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE POWER TRANSMISSION EQUIPMENT INDUSTRY (S.I.C. CODE 3566) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	49,047	267,257	35,366	69,072	172,194	473,063	462,737	738,045	23,412	265	49,580	393,608
New England.....	4,579	22,112	3,389	6,352	14,245	41,180	40,888	61,345	782	26	5,252	34,722
Massachusetts.....	3,355	16,449	2,468	4,615	10,664	31,559	31,486	47,174	551	18	3,884	24,677
Connecticut.....	1,177	5,433	885	1,665	3,421	9,283	9,072	13,662	211	7	1,326	9,802
Middle Atlantic.....	10,585	54,553	7,106	13,554	33,087	85,490	84,236	148,923	6,356	56	10,294	74,494
New York.....	2,640	14,169	1,811	3,835	8,831	20,888	21,119	36,615	1,234	18	2,447	18,851
New Jersey.....	1,824	9,330	1,190	2,332	5,634	17,399	17,434	28,694	862	12	1,593	12,716
Pennsylvania.....	6,121	31,054	4,105	7,387	18,622	47,203	45,683	83,614	4,260	26	6,254	42,927
East North Central.....	27,600	157,813	20,387	39,990	104,027	290,352	280,836	437,149	13,827	119	29,046	247,892
Ohio.....	6,636	38,609	4,750	9,385	24,065	61,783	60,033	92,217	2,416	32	6,741	54,110
Indiana.....	7,025	38,839	5,477	10,379	27,824	70,069	67,640	103,961	4,608	16	8,336	69,216
Illinois.....	5,863	32,357	4,250	8,618	21,019	58,585	57,641	96,942	2,633	39	5,547	45,775
Michigan.....	4,307	25,514	3,312	6,596	17,688	59,328	57,975	83,835	1,274	19	4,837	47,332
Wisconsin.....	3,769	22,494	2,598	5,012	13,431	40,587	37,547	60,194	2,896	13	3,584	31,458
West North Central.....	1,078	5,762	847	1,806	4,034	9,116	9,190	14,813	423	17	954	5,420
Iowa.....	262	1,178	194	416	831	1,485	1,424	2,612	16	2	414	1,708
Missouri.....	305	1,926	251	511	1,266	3,084	3,105	5,204	196	7	230	1,974
South.....	3,267	15,868	2,198	4,305	9,188	27,132	27,393	44,917	1,123	22	1,577	10,834
Texas.....	706	2,944	530	980	1,881	5,167	4,828	8,558	168	7	423	2,978
West.....	1,938	11,149	1,439	3,065	7,613	19,793	20,194	30,898	901	25	2,455	20,243
California.....	1,442	8,297	1,085	2,346	5,620	14,185	14,773	21,757	808	20	1,736	14,498

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—VALUE OF POWER-TRANSMISSION EQUIPMENT SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Mechanical Power Transmission Equipment Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3566----	Power transmission equipment including bearings.....	716,840	595,019
35661--	Plain bearings, total.....	150,291	141,834
3566113	Unmounted, machined (excluding carbon and graphite), all types:		
3566115	Automobile, truck and bus.....	83,253	141,834
3566151	Other types.....	59,646	
3566100	Mounted.....	4,521	
	Plain bearings, not specified by kind.....	2,871	
35662--	Speed changer, gears and industrial high speed drives.....	259,653	218,193
3566211	Variable ratio speed drives.....	17,901	19,654
3566221	Industrial high speed drives, fixed ratio.....	18,871	11,397
	Speed reducers, fixed ratio, enclosed (except gearmotors):		
3566231	Worm gears.....	24,716	19,187
3566232	Other (except gearmotors).....	27,280	
	Gearmotor reducer elements:		
3566234	Under 1/8 horsepower.....	18,237	39,415
3566236	1/8 horsepower to but not including 3/4 horsepower.....	114,105	
3566237	3/4 horsepower to and including 5 horsepower.....	118,831	
3566239	Over 5 horsepower.....	18,272	
	Gears, pinions and racks, unmounted:		
3566241	Fine pitch (20 pitch and finer).....	27,418	103,453
	Other than fine pitch (less than 20 pitch):		
3566246	Aircraft and related engine and power take-off gears.....	26,570	
3566249	Other gears, including railway type pinions, and racks.....	46,815	
3566240	Gears, pinions, and racks, not specified by type.....	7,679	
3566200	Speed changers, gears and industrial high speed drives, not specified by kind.....	13,138	4,992
35663--	Other mechanical power transmission equipment.....	295,771	234,992
3566311	Friction type clutches.....	12,933	18,495
3566313	Hydraulic type clutches (include hydraulic couplings).....	23,438	10,589
3566323	Flexible type couplings (except hydraulic).....	22,553	15,971
3566325	Universal joints.....	26,590	8,815
3566331	Chains for sprocket drives.....	76,598	63,431
3566341	Sprockets.....	21,715	23,733
3566351	Pulleys.....	7,787	6,906
	Sheaves:		
3566361	Single drive.....	4,289	3,467
3566365	Multiple drive.....	9,456	13,795
3566398	Other mechanical power transmission equipment (except automobile, truck, and bus).....	83,445	61,652
3566300	Other mechanical power transmission equipment not specified by kind.....	6,967	7,958
3566000	Mechanical power transmission equipment, including bearings, not specified by kind.....	11,125	xxx

xxx Not applicable.

¹Represents the value of gearmotor reducer elements only. Does not include the value of electric motors shipped as part of gearmotor reducer elements.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P)-35D-2

MECHANICAL STOKERS INDUSTRY

(Industry Code 3568—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Mechanical Stokers Industry shipped products valued at \$10 million, a decrease of 27 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 36 percent from 1954 to 1958 to a total of 700 employees in 1958. Value added by manufacture in the industry amounted to \$6 million in 1958, a decrease of 40 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MECHANICAL STOKERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3568)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	0.7	1.1	-36
Payroll.....	Million dollars...	3.6	5.1	-29
Production workers:				
Number.....	Thousands.....	0.4	0.8	-50
Man-hours.....	Millions.....	0.9	1.5	-40
Wages.....	Million dollars...	2.0	2.8	-29
Value added by manufacture, unadjusted ²	do.....	5.5	9.0	-39
Value added by manufacture, adjusted ³	do.....	5.6	9.4	-40
Cost of materials, fuel, electricity, and contract work ⁴	do.....	4.8	5.2	-8
Value of shipments ⁵	do.....	10.5	14.4	-27
Capital expenditures, new.....	do.....	(6)	(6)	xxx
Number of establishments with 20 or more employees ⁷	Number.....	9	8	+12

xxx Not applicable.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Less than \$500 thousand.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Mechanical Stokers Industry includes establishments engaged primarily in the manufacture of domestic and industrial stokers for anthracite and bituminous coal, either hopper fed, or with a conveyor for direct feed from the bin. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Mechanical Stokers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Mechanical Stokers Industry amounted to \$10 million. Of this total, \$7 million were products primary to the industry, \$1 million were products primary to other industries, and \$2 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured products shipments (primary and secondary). The 1954 ratio was 74 percent.

The total value of shipments for the industry, which is the total value of receipts of

establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$16 million of mechanical stokers and parts were shipped by all producers of these products. Of this total, \$7 million, or 46 percent, were shipped by plants classified in Industry 3568, Mechanical stokers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE MECHANICAL STOKERS INDUSTRY (S.I.C. CODE 3568) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	697	3,638	420	880	1,987	5,531	5,634	10,482	63	9	1,118	8,976
North Central.....	495	2,685	273	551	1,367	4,193	4,235	7,377	47	5	873	7,289
All other divisions.....	202	953	147	329	620	1,338	1,399	3,105	16	4	245	1,687

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--NUMBER AND VALUE OF MECHANICAL STOKERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Mechanical Stokers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3568---	Mechanical stokers, total.....	xxx	15,993	xxx	16,023
3568012	Mechanical stokers (all classes).....	xxx	10,955	xxx	8,312
	Number of mechanical stokers shipped as reported on Census Annual Form MA-35K.....	14,314	(NA)	16,290	(NA)
	Class 1 (Residential).....	11,196		11,772	
	Class 2 (Small apartment house and small commercial).....	902		1,444	
	Class 3 (Large apartment house and medium sized commercial).....	1,309		1,796	
	Class 4 (Large commercial and small industrial).....	671		959	
	Class 5 (Large industrial).....	236		319	
3568081	Parts, attachments, and accessories for mechanical stokers, sold separately.....	xxx	5,038	xxx	7,711

NA Not available.

xxx Not applicable.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35D-3

CONVEYORS INDUSTRY

(Industry Code 3563—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Conveyors Industry shipped products valued at \$574 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 30.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$288 million in 1958, an increase of 2 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE CONVEYORS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3563)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	30.9	32.4	-5
Payroll.....	Million dollars...	175.1	161.4	+8
Production workers:				
Number.....	Thousands.....	19.3	22.3	-13
Man-hours.....	Millions.....	38.7	46.0	-16
Wages.....	Million dollars...	94.3	95.8	-2
Value added by manufacture, unadjusted ².....	..do.....	290.3	286.9	+1
Value added by manufacture, adjusted ³.....	..do.....	288.3	281.8	+2
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	274.3	221.5	+24
Value of shipments ⁵.....	..do.....	574.3	513.0	+12
Capital expenditures, new.....	..do.....	11.1	10.5	+6
Number of establishments with 20 or more employees ⁶	Number.....	193	192	+1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Conveyers Industry includes establishments engaged primarily in the manufacture of conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Conveyors Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Conveyors Industry amounted to \$574 million. Of this total, \$392 million were products primary to the industry, \$93 million were products primary to other industries, and \$89 million were receipts for miscellaneous activities. The industry shipments of primary products represented 81 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 77 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$474 million of conveyors and conveying equipment were shipped by all producers of these products. Of this total, \$392 million, or 83 percent, were shipped by plants classified in Industry 3563, Conveyors, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.-- GENERAL STATISTICS FOR THE CONVEYORS INDUSTRY (S.I.C. CODE 3563), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	30,938	175,117	19,284	38,667	94,316	290,334	288,327	574,305	11,052	193	32,370	286,919
New England.....	337	1,860	241	506	1,230	2,497	2,540	5,743	48	6	428	3,011
Massachusetts.....	256	1,412	194	403	978	1,768	1,831	4,362	41	5	394	2,727
Middle Atlantic.....	6,219	34,292	3,485	7,174	16,723	58,590	61,336	126,618	1,271	43	5,755	50,393
New York.....	1,626	8,663	1,088	2,242	4,989	17,621	16,664	29,222	346	12	1,669	14,740
New Jersey.....	1,720	10,387	809	1,710	4,203	13,250	14,092	36,673	336	14	1,116	9,215
Pennsylvania.....	2,873	15,242	1,588	3,222	7,531	27,719	30,580	60,723	589	17	2,969	26,436
East North Central.....	17,151	100,543	10,958	21,728	56,013	165,890	160,855	310,547	6,993	75	19,163	180,072
Ohio.....	6,546	36,223	3,937	7,311	18,870	60,397	59,503	110,341	4,038	20	5,272	41,926
Indiana.....	472	2,327	350	685	1,496	2,969	3,043	6,003	147	5	533	4,042
Illinois.....	4,599	27,218	2,979	6,171	15,211	47,914	47,079	93,065	1,391	21	4,557	49,043
Michigan.....	4,522	29,165	2,919	5,928	16,592	43,830	41,764	82,338	958	23	5,188	56,192
Wisconsin.....	1,012	5,610	773	1,633	3,844	10,780	9,466	18,800	459	6	3,611	28,868
West North Central.....	2,322	11,806	1,446	2,864	6,015	22,866	23,961	46,019	627	23	2,653	21,866
Minnesota.....	524	2,704	312	590	1,422	4,853	4,801	9,117	92	4	569	4,744
Iowa.....	418	2,114	251	488	1,009	4,385	4,494	8,370	196	4	308	3,107
Missouri.....	549	3,193	334	665	1,498	4,389	5,124	9,713	93	7	564	5,216
Kansas.....	554	2,664	328	674	1,244	6,492	6,761	14,106	218	5	773	6,516
South Atlantic.....	691	3,798	435	787	1,879	6,238	6,346	14,490	535	8	313	2,079
East South Central.....	1,989	9,773	1,292	2,611	5,358	12,876	11,896	23,938	1,055	10	1,827	10,215
West South Central.....	570	2,846	369	691	1,367	4,165	4,501	9,279	88	8	517	3,648
Texas.....	463	2,351	289	533	1,030	3,521	3,622	7,828	71	7	390	2,830
West.....	1,659	10,199	1,058	2,306	5,731	17,212	16,889	37,671	435	20	1,711	15,633
Washington.....	253	1,397	164	326	853	2,759	2,325	4,535	11	3	216	1,623
California.....	1,269	8,030	804	1,751	4,391	13,555	13,296	30,016	363	14	1,367	12,966

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF CONVEYORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Conveyors Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3563--	Conveyors, total.....	xxx	473,763	xxx	431,774
35631--	Overhead traveling cranes and monorail systems.....	xxx	107,839	xxx	103,988
	Cranes (except construction power cranes):				
3563111	Electric overhead traveling.....	2,582	83,996	3,958	86,588
3563115	Hand power overhead traveling.....	805	1,027	1,773	3,315
3563151	Monorail systems (including parts and attachments).....	4,140	20,385	xxx	14,085
3563199	Overhead traveling cranes and monorail systems, not specified by kind.....	xxx	2,431	xxx	...
35632--	Farm elevators and parts:				
3563200	Total as reported in the Census of Manufactures.....	xxx	132,020	xxx	33,143
	Total as reported on Census Annual Form MA-35A.....	xxx	130,295	xxx	xxx
	Farm elevators (portable):				
3563211	Single chain.....	20,288	2,309	17,039	2,636
3563213	Double Chain.....	47,358	14,911	48,225	15,260
3563215	Auger type.....	112,878	7,895	103,729	6,507
	Farm elevators (stationary):				
3563233	Bucket size 12" and smaller.....	581	226	2,116	1,607
3563235	Bucket size 13" and wider.....	583	530		
3563241	Other farm elevators.....	NA	2458	xxx	1,762
3563271	Attachments for farm elevators.....	xxx	1,782	xxx	3,385
3563251	Parts for farm elevators.....	xxx	2,184	xxx	1,986
35633--	Conveyors and conveying systems (except hoists).....	xxx	248,926	xxx	233,389
3563311	Gravity conveyors (slate wheel and rollers).....	xxx	20,129	xxx	22,129
3563331	Overhead trolley conveyor systems.....	xxx	19,486	xxx	16,072
3563341	Pneumatic tube systems (including foot-power units).....	xxx	12,720	xxx	5,601
3563351	Portable conveyors (except farm).....	xxx	8,633	xxx	6,683
3563361	Underground mine conveyors and conveying system.....	xxx	11,066	xxx	3,095
	Other conveyors and conveying systems (including specially engineered conveyor installations):				
3563371	Bulk material conveyors.....	xxx	117,760	xxx	140,750
3563373	Package (unit) conveyors.....	xxx	47,730		
3563399	Conveyors and conveying systems (except hoists, not specified by kind.....	xxx	11,402	xxx	8,442
3563411	Parts, attachments, and accessories for conveyors and systems (sold separately).....	xxx	71,361	xxx	61,254
3563000	Conveyors and conveying equipment (except hoists) not specified by kind.....	xxx	13,617	xxx	...

NA Not available.

xxx Not applicable.

¹For the products identified by italics, data for 1958 were also collected on Annual Form MA-35A. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual figures amounting to not more than five percent at the class of product level. These variations were due primarily to the following reasons:

1. Use of different reporting periods (calendar year vs. fiscal year.)
2. Use of different bases for reporting value (company sales vs. factory production.)
3. Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the annual survey.
4. Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
5. Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35A will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²Includes value of a small number of "Other farm blowers" which were combined with "Other farm elevators" to avoid disclosing figures of individual companies.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)35D-4

BLOWERS AND FANS INDUSTRY

(Industry Code 3564—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Blowers and Fans Industry shipped products valued at \$264 million, a decrease of 6 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 14 percent from 1954 to 1958 to a total of 15.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$141 million in 1958, a decrease of 8 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE BLOWERS AND FANS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3564)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.5	18.1	-14
Payroll.....	Million dollars...	80.1	80.9	-1
Production workers:				
Number.....	Thousands.....	10.7	13.7	-22
Man-hours.....	Millions.....	21.0	27.3	-23
Wages.....	Million dollars...	48.9	54.0	-9
Value added by manufacture, unadjusted ².....	...do.....	141.2	151.3	-7
Value added by manufacture, adjusted ³.....	...do.....	141.2	153.4	-8
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	118.2	124.4	-8
Value of shipments ⁵.....	...do.....	263.8	279.7	-6
Capital expenditures, new.....	...do.....	5.0	5.9	-15
Number of establishments with 20 or more employees ⁶	Number.....	10.1	10.6	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Blowers and Fans Industry includes establishments engaged primarily in the manufacture of blowers and exhaust and ventilating fans for general industrial, commercial and household use, including attic fans, blower-filter units, fans for mechanical draft, air washers, dust-collection and air-purification equipment. This report does not include fixtures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Blowers and Fans Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Blowers and Fans Industry amounted to \$264 million. Of this total, \$190 million were products primary to the industry, \$47 million were products primary to other industries, and \$27 million were receipts for miscellaneous activities. The industry shipments of primary products represented 80 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$242 million of blowers and fans were shipped by all producers of these products. Of this total, \$190 million, or 78 percent, were shipped by plants classified in Industry 3564, Blowers and Fans while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE BLOWERS AND FANS INDUSTRY (S.I.C. CODE 3564) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	15,527	80,140	10,710	20,951	48,903	141,203	141,177	263,821	5,036	101	18,125	151,272
New England.....	2,559	13,093	1,743	3,389	7,931	22,193	21,823	38,340	528	8	638	5,823
Connecticut.....	1,366	6,842	924	1,827	4,060	11,393	11,559	19,850	401	6	544	5,118
Middle Atlantic.....	4,050	21,419	2,556	5,135	12,048	36,700	36,422	65,131	993	21	3,456	27,104
New York.....	2,162	11,635	1,701	3,436	8,073	20,080	20,341	33,125	530	10	2,106	15,118
East North Central.....	5,668	29,959	3,839	7,284	17,581	50,077	50,057	99,987	2,345	38	9,434	81,814
Ohio.....	1,199	5,980	781	1,553	3,535	12,020	11,654	23,331	422	9	3,136	30,809
Illinois.....	1,154	6,082	801	1,670	3,460	10,268	10,014	19,972	273	11	1,105	8,160
Michigan.....	2,019	11,690	1,400	2,542	7,149	18,022	18,832	37,416	1,153	7	1,944	16,862
West North Central.....	469	2,231	340	719	1,543	4,000	4,127	7,691	157	8	658	4,642
South.....	1,552	6,807	1,342	2,626	5,508	16,809	17,398	33,205	488	14	2,332	19,473
West.....	1,229	6,631	890	1,798	4,292	11,424	11,350	19,467	525	12	1,604	12,414
California.....	1,059	5,722	755	1,557	3,583	10,282	10,172	17,333	483	10	1,432	11,376

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—VALUE OF BLOWERS AND FANS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes value of these products reported not only by establishments classified in the Blowers and Fans Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3564---	Blowers and fans, total.....	242,331	274,045
3564011	Blowers, industrial exhaust and ventilating fans, and parts (including attic-type fans): As reported in Census of Manufactures.....	167,035	206,748
	As reported on Census Quarterly Form M-35H.....	166,592	xxx
	Fans and blowers group, total.....	146,915	(NA)
	Centrifugal fans and blowers, total.....	90,338	97,112
3564013	Blower-filter units.....	2,538	3,173
3564014	Classes I and II fans (over 1-1/2" to 6-3/4" maximum total pressure).....	17,864	14,220
3564015	Classes III and IV fans (greater than 6-3/4" maximum total pressure).....	13,772	12,855
3564016	Furnace and light weight air-conditioning blowers.....	13,075	14,136
3564017	Industrial fans, excluding positive blowers and turbo-blowers.....	10,132	10,077
3564018	Positive displacement blowers and turbo-blowers.....	20,431	28,461
3564019	Small-housed blowers (utility set).....	12,526	14,190
	Industrial propeller fans, total.....	21,639	277,058
	Fans, total.....	18,142	
3564020	Directly connected to driver.....	11,357	277,058
3564021	Belt-driven.....	6,785	
3564022	Penthouses, shutters, guards, and other accessories.....	3,497	3,429
	Axial fans, total.....	11,150	13,406
3564023	Directly connected to driver.....	7,930	10,885
3564024	Belt-driven.....	3,220	2,521
3564025	Parts for fans and blowers.....	23,788	15,541
	Power roof ventilators group, total.....	19,677	
3564026	Axial and propeller type.....	7,408	
3564027	Centrifugal type.....	12,175	(NA)
3564028	Parts for power roof ventilators.....	94	
3564031	Air washers: As reported in Census of Manufactures.....	13,250	2,003
	As reported on Census Quarterly Form M-35H.....	12,368	xxx
3564051	Dust collection and other air purification equipment.....	61,506	65,294
3564000	Blowers and fans, not specified by kind.....	10,540	...

*Revised.

NA Not available.

xxx Not applicable.

¹For the products identified by italics, figures for 1958 were also collected on quarterly Form M-35H. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the quarterly form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the quarterly survey. However, there were some differences between the Census figures and the quarterly survey figures amounting to less than one percent at the industry level and; not more than five percent at the class of product level; or having an absolute difference of less than \$1 million. These variations were due primarily to the following reasons:

1. Use of different reporting periods (calendar year vs. fiscal year.)
2. Use of different bases for reporting value (company sales vs. factory production.)
3. Inclusion in the Census of Manufactures of reports for manufacturers producing not only parts and attachments for replacement and repair, but also parts and attachments sold to other manufacturers. Data for the latter items would normally be excluded from the quarterly survey.
4. Use of estimates in reporting data on the quarterly survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
5. Better coverage in the Census of Manufactures program. Coverage in the quarterly survey on Form M35H will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

²Statistics for 1954 include figures for household propeller fans and are not directly comparable with 1958 statistics which exclude such figures.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35D-5

INDUSTRIAL FURNACES AND OVENS INDUSTRY

(Industry Code 3567—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Industrial Furnaces and Ovens Industry shipped products valued at \$190 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 10 percent from 1954 to 1958 to a total of 9.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$87 million in 1958, an increase of 8 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRIAL FURNACES AND OVENS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3567)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.2	8.4	+10
Payroll.....	Million dollars...	51.3	42.4	+21
Production workers:				
Number.....	Thousands.....	4.8	5.1	-6
Man-hours.....	Millions.....	9.8	10.4	-6
Wages.....	Million dollars...	22.9	21.0	+9
Value added by manufacture, unadjusted ².....	...do.....	91.3	81.4	+12
Value added by manufacture, adjusted ³.....	...do.....	87.5	80.8	+8
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	96.7	85.7	+13
Value of shipments ⁵.....	...do.....	190.3	169.3	+12
Capital expenditures, new.....	...do.....	2.8	1.9	+47
Number of establishments with 20 or more employees ⁶	Number.....	71	63	+13

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Industrial Furnaces and Ovens Industry includes establishments engaged primarily in the manufacture of electric, coal, gas, oil, and other fuel-fired or steam-heated industrial furnaces and ovens. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Industrial Furnaces and Ovens Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Industrial Furnaces and Ovens Industry amounted to \$190 million. Of this total, \$139 million were products primary to the industry, \$26 million were products primary to other industries, and \$25 million were receipts for miscellaneous activities. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$172 million of industrial furnaces and ovens were shipped by all producers of these products. Of this total, \$139 million, or 81 percent, were shipped by plants classified in Industry 3567, Industrial Furnaces and Ovens, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE INDUSTRIAL FURNACES AND OVENS INDUSTRY (S.I.C. CODE 3567) BY REGIONS AND STATES: 1958 and 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,241	51,256	4,751	9,780	22,882	91,273	87,486	190,299	2,807	71	8,415	81,399
New England.....	656	3,591	448	919	2,235	5,441	5,723	10,696	99	7	396	3,363
Middle Atlantic.....	2,977	14,492	1,417	2,815	6,680	23,555	22,524	52,712	901	19	3,679	31,257
New York.....	284	1,709	160	311	719	2,926	2,976	4,766	114	3	629	5,825
New Jersey.....	746	4,264	563	1,134	2,861	7,446	6,890	14,435	272	7	786	6,507
Pennsylvania.....	1,947	8,519	694	1,370	3,100	13,183	12,658	33,511	515	9	2,264	18,924
East North Central.....	4,545	7,388	2,195	4,581	10,738	53,270	51,130	106,182	1,549	29	3,605	42,785
Ohio.....	1,687	10,298	707	1,438	3,579	23,854	21,378	54,827	470	11	1,541	20,478
Illinois.....	1,121	6,828	576	1,237	2,773	10,512	10,758	19,086	251	8	1,184	11,122
Michigan.....	578	3,702	351	713	1,770	5,982	5,639	12,008	74	7	795	10,706
West North Central.....	400	2,224	259	580	1,189	3,008	3,237	7,879	197	5	379	1,942
South and West.....	663	3,561	432	885	2,040	5,999	4,872	12,830	61	11	355	2,049

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF INDUSTRIAL FURNACES AND OVENS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 and 1954

(Includes quantity and value of these products reported not only by establishments classified in the Industrial Furnaces and Ovens Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers ¹			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3567---	Industrial furnaces and ovens.....	xxx	² 171,601	xxx	154,284
35671--	Electric industrial furnaces and ovens, total.....	xxx	35,493	xxx	37,915
	Electric furnaces (excluding induction):				
3567111	Metal melting.....	296	9,016	274	7,806
3567121	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)...	2,415	16,940	1,881	19,673
3567131	Nonmetallic (including kilns and lehrs).....	(NA)	2,499	xxx	1,362
3567143	Electric (including infrared) industrial ovens.....	(NA)	6,024	xxx	6,730
3567100	Electric furnaces and ovens, not specified by kind.....	xxx	1,014	xxx	2,344
35672--	Fuel fired industrial furnaces and ovens, total.....	xxx	96,360	xxx	81,919
	Fuel fired furnaces:				
3567211	Metal melting (including blast furnaces and cupolas).....	1,584	7,279	812	2,593
3567221	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)...	1,388	50,738	2,586	49,183
3567261	Hot rolling, forging, forming and extruding.....				
3567232	Kilns, cement, wood and chemical.....	(NA)	14,606	1,553	5,764
3567234	Other nonmetallic (including kilns and lehrs).....	(NA)	4,873		
3567241	Fuel fired industrial ovens.....	1,956	16,841	2,957	21,962
3567200	Fuel fired furnaces and ovens, not specified by kind.....	xxx	2,023	xxx	2,417
3567311	Parts, attachments, and components for industrial furnaces and ovens, including electric heating units (sold separately)....	xxx	33,509	xxx	32,553
3567000	Industrial furnaces and ovens, not specified by kind.....	xxx	6,239	xxx	1,897

NA Not available.

xxx Not applicable.

¹Represents shipments of industrial furnaces and ovens produced by manufacturing establishments only. Does not include industrial furnaces and ovens erected at the site by engineering and construction firms which purchase component parts for such furnaces and ovens.

²Establishments classified in Industry 3567 reported a breakdown of shipments of industrial furnaces and ovens between "Field-assembled" and "Factory-assembled" installations. Of the \$139 million of industrial furnaces, ovens, and parts reported by establishments classified in Industry 3567, "Field-assembled" installations amounted to \$66 million and "Factory-assembled" installations \$73 million. "Field-assembled" represents installations erected at the site by the manufacturer, either using his own labor force or utilizing local labor under the supervision of the manufacturer's factory personnel.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35D-6

INDUSTRIAL TRUCKS AND TRACTORS INDUSTRY

(Industry Code 3565—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Industrial Trucks and Tractors Industry shipped products valued at \$269 million, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 6 percent from 1954 to 1958 to a total of 14.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$118 million in 1958, a decrease of 6 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRIAL TRUCKS AND TRACTORS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3565)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	14.8	15.8	-6
Payroll.....	Million dollars...	75.9	71.8	+6
Production workers:				
Number.....	Thousands.....	9.5	11.1	-14
Man-hours.....	Millions.....	18.3	22.1	-17
Wages.....	Million dollars...	42.8	44.8	-4
Value added by manufacture, unadjusted ².....	..do.....	125.1	123.0	+2
Value added by manufacture, adjusted ³.....	..do.....	117.5	124.5	-6
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	140.3	132.2	+6
Value of shipments ⁵.....	..do.....	269.2	260.1	+3
Capital expenditures, new.....	..do.....	3.2	7.1	-55
Number of establishments with 20 or more employees ⁶	Number.....	95	96	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Industrial Trucks and Tractors Industry includes establishments engaged primarily in the manufacture of industrial trucks, tractors, trailers, stockers, hand lift trucks, hand trailers, dollies, and metal pallets and skids used for handling materials on floors and paved surfaces in and around industrial plants, depots, docks and terminals. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Industrial Trucks and Tractors Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Industrial Trucks and Tractors Industry amounted to \$269 million. Of this total, \$230 million were products primary to the industry, \$19 million were products primary to other industries, and \$20 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92

percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$275 million of industrial trucks and trailers were shipped by all producers of these products. Of this total, \$230 million, or 84 percent, were shipped by plants classified in Industry 3565, Industrial Trucks and Trailers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE INDUSTRIAL TRUCKS AND TRACTORS INDUSTRY (S.I.C. CODE 3565) BY REGION AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	14,760	75,910	9,527	18,308	42,846	125,096	117,492	269,178	3,228	95	15,797	123,044
Northeast.....	4,536	23,479	2,825	5,600	13,549	37,785	41,071	71,207	623	22	4,408	34,975
Massachusetts.....	807	3,947	615	1,247	2,846	7,440	7,464	12,709	76	5	628	5,695
New York.....	460	2,390	277	552	1,182	4,902	5,004	9,607	123	5	451	4,547
Pennsylvania.....	3,050	16,181	1,759	3,460	8,861	23,891	27,013	46,197	332	6	3,110	23,343
East North Central.....	6,233	32,765	4,049	7,445	18,223	54,811	48,292	122,273	1,394	32	7,850	61,972
Ohio.....	2,159	12,100	1,245	2,536	6,060	19,485	17,864	37,833	268	8	2,601	19,787
Illinois.....	1,774	8,459	1,101	2,167	4,984	15,874	11,268	32,597	703	10	1,879	16,173
Michigan.....	1,912	10,339	1,414	2,208	6,003	16,881	16,651	46,358	347	8	2,744	21,524
West North Central.....	600	2,726	396	781	1,462	4,339	4,232	8,332	178	8	917	6,081
Minnesota.....	351	1,603	239	472	889	2,572	2,453	4,943	145	5	597	3,959
South Atlantic.....	610	2,161	429	855	1,350	4,401	3,065	9,194	138	7	383	1,934
Georgia.....	475	1,568	325	642	973	3,427	2,211	6,900	125	4	227	1,159
South Central.....	611	2,564	456	945	1,539	3,857	4,321	9,448	180	9	510	3,351
West.....	2,170	12,215	1,372	2,682	6,723	19,903	16,511	48,724	715	17	1,727	14,729
Oregon.....	940	5,461	623	1,260	3,366	7,605	5,592	18,107	275	4	1,032	8,837
California.....	1,021	5,668	603	1,117	2,634	10,629	9,435	25,340	396	11	646	5,462

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF INDUSTRIAL TRUCKS AND TRACTORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Industrial Trucks and Trailers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3565---	Industrial trucks, tractors, total.....	xxx	275,184	xxx	254,822
	Industrial trucks, tractors, trailers, portable elevators, and accessories:				
	Powered trucks and tractors:				
3565011	Trucks (operator walking).....	10,595	20,306	8,452	10,937
	Trucks (operator riding) and tractors				
3565021	Electric (storage battery and gasoline-powered):				
3565029	Fork trucks.....	3,261	14,795	4,205	21,983
	Other industrial trucks and tractors.....	xxx	3,323	797	3,606
	Gasoline:				
3565031	Fork trucks.....	16,386	94,940	17,287	74,102
3565033	Trucks (except fork).....	631	3,358	1,172	6,153
3565035	Tractors.....	2,974	12,769	2,863	4,526
3565041	All other trucks (operator riding) and tractors (including Diesel, compressed-air powered, etc.).....	(NA)	5,544	xxx	2,439
3565051	Portable elevators (stackers) excluding farm.....	2,870	3,771	4,775	3,630
3565081	Parts and attachments and miscellaneous equipment (sold separately).....	xxx	44,703	xxx	61,049
	Hand trucks and trailers (including dollies and platform trucks):				
3565061	Hand lift.....	(NA)	11,581	xxx	11,279
3565065	Other hand trucks and trailers (including two wheel, four wheel, dollies and platform trucks).....	xxx	30,257	xxx	30,927
3565071	Metal pallets and skids (excluding wood and metal combination)	xxx	6,786	xxx	12,924
3565000	Industrial trucks and trailers, not specified by kind.....	xxx	23,051	xxx	11,267

xxx Not applicable.

NA Not available.

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BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-35D-7

ELEVATORS AND ESCALATORS INDUSTRY

(Industry Code 3562—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Elevators and Escalators Industry shipped products valued at \$193 million, an increase of 15 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 6 percent from 1954 to 1958 to a total of 9.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$125 million in 1958, an increase of 25 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ELEVATORS AND ESCALATORS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3562)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.7	10.3	-6
Payroll.....	Million dollars...	55.9	49.5	+13
Production workers:				
Number.....	Thousands.....	5.9	7.0	-16
Man-hours.....	Millions.....	11.7	14.2	-18
Wages.....	Million dollars...	31.5	31.8	-1
Value added by manufacture, unadjusted ².....	..do.....	122.7	102.1	+20
Value added by manufacture, adjusted ³.....	..do.....	124.9	99.8	+25
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	70.9	64.6	+10
Value of shipments ⁵.....	..do.....	193.4	167.5	+15
Capital expenditures, new.....	..do.....	2.3	1.4	+64
Number of establishments with 20 or more employees ⁶	Number.....	76	66	+15

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Elevators and Escalators Industry includes establishments engaged primarily in the manufacture of passenger or freight elevators, automobile lifts, dumbwaiters and escalators. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Elevators and Escalators Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Elevators and Escalators Industry amounted to \$193 million. Of this total, \$133 million were products primary to the industry, \$5 million were products primary to other industries, and \$55 million were receipts for miscellaneous activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$166 million of Elevators and Escalators were shipped by all producers of these products. Of this total, \$133 million, or 80 percent, were shipped by plants classified in Industry 3562, Elevators and Escalators, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the Final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE ELEVATORS AND ESCALATORS INDUSTRY (S.I.C. CODE 3562) BY REGION AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,669	55,924	5,920	11,695	31,471	122,729	124,936	193,434	2,307	76	10,257	102,106
New England.....	293	1,544	195	374	1,045	2,181	2,225	4,066	37	5	374	2,794
Middle Atlantic.....	4,973	29,958	3,094	6,205	17,730	82,753	85,933	117,729	1,098	20	6,551	71,909
New York.....	990	5,463	728	1,429	3,820	10,227	10,905	16,516	136	10	2,837	23,019
North Central.....	2,591	14,104	1,615	3,045	7,970	21,366	20,497	41,577	838	28	2,046	17,357
Ohio.....	1,260	7,031	713	1,458	3,759	10,412	10,519	20,243	568	6	855	6,448
Wisconsin.....	257	1,639	204	401	1,134	2,510	2,537	4,231	13	4	182	2,261
South.....	1,033	5,094	677	1,402	2,872	8,201	7,704	15,525	246	13	896	6,803
West.....	779	5,224	339	669	1,854	8,228	8,577	14,537	88	10	390	3,241
California.....	622	4,370	252	498	1,382	6,868	7,123	12,220	87	9	344	2,989

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF ELEVATORS AND ESCALATORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Elevators and Escalators Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of Shipment")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3562—	Elevators and escalators, total.....	xxx	166,390	xxx	128,102
	Elevators and moving stairways:.....				
	Elevators (except farm and portable):.....				
3562011	Electric passenger (except residence lifts).....	3,013	62,090	5,710	46,543
3562012	Hydraulic passenger.....	1,029	5,270	(1)	(1)
3562013	Electric freight.....	1,325	16,247	1,580	12,541
3562015	Hydraulic freight.....	2,203	7,105	3,729	9,045
3562031	Automobile lifts (Service station and Garage types).....	21,125	13,793		
3562051	Moving stairways and escalators.....	1,283	6,587		
3562098	Other nonfarm elevators (including sidewalk elevators, dumb-waiters, man lifts, hand-operated freight elevators, residence lifts, etc.) and parts and attachments for elevators and moving stairways (sold separately).....	xxx	46,528	xxx	159,973
3562000	Elevators and escalators, not specified by kind.....	xxx	8,770	xxx	xxx

xxx Not applicable.

¹"Hydraulic passenger elevators" are included with "Other nonfarm elevators."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-35D-8

PUMPS AND COMPRESSORS INDUSTRY

(Industry Code 3561—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Pumps and Compressors Industry shipped products valued at \$1,121 million, an increase of 15 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment of 60.3 thousand employees in 1958 in this industry showed no change from 1954. Value added by manufacture in the industry amounted to \$545 million in 1958, an increase of 10 percent from 1954 when the previous census was taken. Value added is

derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PUMPS AND COMPRESSORS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3561)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	60.3	60.3	...
Payroll.....	Million dollars...	323.3	272.6	+19
Production workers:				
Number.....	Thousands.....	37.7	41.3	-9
Man-hours.....	Millions.....	75.5	82.9	-9
Wages.....	Million dollars...	181.1	168.6	+7
Value added by manufacture, unadjusted ².....	...do.....	570.1	498.0	+14
Value added by manufacture, adjusted ³.....	...do.....	545.0	495.5	+10
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	542.0	460.5	+18
Value of shipments ⁵.....	...do.....	1,121.2	974.8	+15
Capital expenditures, new.....	...do.....	25.7	18.0	+43
Number of establishments with 20 or more employees ⁶	Number.....	242	237	+2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Pumps and Compressors Industry includes establishments engaged primarily in the manufacture of pumps, compressors and pumping equipment for general industrial use. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Pumps and Compressors Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Pumps and Compressors Industry amounted to \$1,121 million. Of this total, \$914 million were products primary to the industry, \$99 million were products primary to other industries, and \$108 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,062 million of pumps and compressors were shipped by all producers of these products. Of this total, \$914 million, or 86 percent, were shipped by plants classified in Industry 3561, Pumps and Compressors, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PUMPS AND COMPRESSORS INDUSTRY (S.I.C. CODE 3561), BY REGION AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	60,334	323,336	37,666	75,486	181,055	570,076	544,955	1,121,222	25,663	242	60,324	498,011
New England.....	3,594	18,823	2,109	4,375	10,333	31,125	30,682	59,710	1,742	12	2,624	22,884
Connecticut.....	1,699	8,699	986	1,974	4,448	16,553	15,694	27,183	524	4	1,498	12,773
Middle Atlantic.....	19,275	101,914	12,566	25,520	61,739	174,651	161,308	368,339	10,870	48	21,196	170,018
New York.....	9,570	49,284	6,052	11,948	28,375	84,474	78,082	171,701	7,384	15	9,190	74,592
New Jersey.....	5,300	28,228	3,360	6,887	16,890	53,403	44,742	122,639	(D)	12	7,610	64,553
Pennsylvania.....	4,405	24,402	3,154	6,685	16,474	36,774	38,484	73,999	(D)	21	4,394	30,872
East North Central.....	25,295	139,056	15,247	29,870	72,925	241,708	231,478	442,362	8,677	92	23,196	193,321
Ohio.....	8,851	47,073	5,656	10,524	26,052	79,108	77,235	140,364	3,241	23	6,559	51,076
Indiana.....	2,341	11,358	1,493	2,926	6,288	19,959	21,208	46,981	572	10	1,911	16,141
Illinois.....	6,360	34,365	4,012	8,316	19,460	77,167	72,897	135,232	1,878	26	6,809	61,222
Michigan.....	4,116	25,071	1,971	3,819	10,106	30,967	24,980	53,609	1,381	16	4,921	41,265
Wisconsin.....	3,627	21,189	2,115	4,285	11,019	34,507	35,158	66,176	1,605	17	2,995	23,614
West North Central.....	3,101	15,127	2,124	4,182	9,632	31,021	29,041	58,408	637	16	4,298	28,883
Iowa.....	662	3,260	461	860	1,962	5,567	5,523	10,329	125	3	1,239	6,364
Missouri.....	820	3,829	515	977	2,292	8,221	8,245	17,041	237	5	388	5,744
Nebraska.....	734	3,510	568	1,150	2,536	7,975	7,274	12,975	27	3	1,308	8,354
Kansas.....	658	3,293	472	986	2,335	7,057	5,902	13,508	127	3	1,086	5,637
South Atlantic.....	550	1,857	389	725	1,317	2,977	2,775	8,378	1,093	9	446	3,314
East South Central.....	362	1,913	241	462	1,228	2,463	2,626	5,429	108	2	672	4,272
West South Central.....	2,514	12,836	1,723	3,642	7,398	24,745	25,591	52,534	962	22	2,451	23,435
Texas.....	1,220	6,554	882	1,923	3,976	12,447	13,436	27,145	715	12	1,002	9,623
Mountain.....	268	1,285	161	351	710	3,767	3,996	6,877	162	3	149	1,324
Pacific.....	5,375	30,525	3,106	6,359	15,773	57,619	57,458	119,185	1,412	38	5,288	50,558

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF PUMPS AND COMPRESSORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1957 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Pumps and Compressors Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3561---	Pumps and compressors, total.....	xxx	1,062,131	xxx	867,400
35611--	Industrial pumps, total.....	xxx	428,236	xxx	316,384
3561101	Reciprocating pumps:				
3561103	Direct-acting steam driven.....	1,923	4,609	4,187	4,381
	Power-operated, other than steam.....	44,963	16,716	19,981	13,529
3561107	Turbine pumps, vertical (including deep-well).....	18,775	36,558	28,955	45,743
	Centrifugal pumps:				
	Single-stage-single suction, close coupled:				
3561112	1" discharge outlet and under.....	163,534	10,575		
3561114	1-1/2" discharge outlet.....	59,696	7,766		
3561115	2" and 2-1/2" discharge outlet.....	28,083	6,759		
3561116	3" and 4" discharge outlet.....	13,699	6,505		
3561119	Over 4" discharge outlet.....	2,629	2,315		
	Single stage-single suction, frame mounted:				
3561122	1" discharge outlet and under.....	129,673	7,184		
3561123	1-1/2" discharge outlet.....	148,482	11,403		
3561124	2" and 2-1/2" discharge outlet.....	34,586	7,225		
3561125	3" discharge outlet.....	19,994	5,897		
3561126	4" to 6" discharge outlet.....	9,182	8,080		
3561129	Over 6" discharge outlet.....	1,293	3,061		
	Single stage-double suction:				
3561142	Under 4" discharge outlet.....	5,625	3,091	681,546	128,066
3561144	4" and 5" discharge outlet.....	4,715	5,604		
3561146	6" discharge outlet.....	1,506	2,541		
3561148	8" to 12" discharge outlet.....	2,145	6,692		
3561149	Over 12" discharge outlet.....	579	6,337		
	Multistage (single or double suction):				
3561152	1-1/2" discharge outlet and under.....	8,235	4,695		
3561154	2" and 3" discharge outlet.....	4,976	7,759		
3561156	4" and 5" discharge outlet.....	(NA)	4,951		
3561158	6" and 7" discharge outlet.....	787	6,284		
3561159	8" and over discharge outlet.....	271	5,989		
3561162-64	Propeller and mixed flow.....	1,764	14,591		
3561169	All other centrifugal pumps, including can, etc.	xxx	44,405		
	Rotary pumps, 100 PSI and under, designed pressure:				
3561172	10 gallons per minute and under, designed capacity.....	422,550	6,514	1,222,918	14,767
3561173	11 to 299 gallons per minute, designed capacity.....	122,712	9,041		
3561174	300 gallons per minute, and over designed capacity.....	1,616	1,279	107,010	9,565
3561175	Rotary pumps, 101 to and including 250 PSI, designed				
	pressure (all capacities).....	12,334	4,250		
3561176	Rotary pumps, 251 to and including 500 PSI, designed				
	pressure (all capacities).....	27,000	3,100	54,341	7,458
3561179	Rotary pumps, over 500 PSI, designed pressure (all capacities)..	6,759	1,641	100,213	6,441
3561191	Vacuum pumps (except dry vacuum and laboratory).....	42,325	12,129	19,501	11,482
	Hydraulic fluid power pumps and motors:				
3561181	Gear type.....	277,776	15,269		
3561183	Vane type.....	129,887	18,586		
3561185-87	Piston type.....	42,021	17,121	xxx	69,905
3561198	Other industrial pumps, except vacuum.....	xxx	20,293		
3561100	Industrial pumps, not specified by kind.....	xxx	71,421	xxx	5,047
3561220	Domestic water systems and pumps (including pump jacks and				
(part) and	cylinders):				
3561230-20	As reported in the Census of Manufactures.....	xxx	167,656	xxx	76,566
	As reported on Census Annual Form WA-35G.....	xxx	166,474	xxx	...
	Domestic water systems:				
	Summary by type, total.....	694,970	63,975	721,225	71,216
	Jet.....	335,263	25,687	2510,436	246,277
	Non-jet.....	95,080	7,611	167,427	13,596
	Convertible jet.....	186,994	13,997	(2)	(2)
	Submersible.....	77,633	16,680	43,362	11,343
	Summary by horsepower or capacity, total.....	694,970	63,975	721,225	71,216
	Deep well (except submersible), total.....	167,986	15,821	3510,881	332,647
	Jet, total.....	152,409	13,849	281,185	28,555
	1/3 hp. and under.....	25,397	1,649	73,877	5,480
	1/2 hp.	67,870	5,266	131,528	12,622
	3/4 to 1 hp.....	51,203	5,339	63,959	7,748
	Over 1 hp.....	7,939	1,595	11,841	1,485

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF PUMPS AND COMPRESSORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Pumps and compressors—Continued				
	Domestic water systems and pumps (including pump jacks and cylinders)—Continued				
	As reported on Census Annual Form MA-35G—Continued				
	Domestic water systems—Continued				
	Summary by horsepower or capacity—Continued				
	Deep well (except submersible)—Continued				
	Nonjet, total.....	15,577	1,972	29,696	4,092
	Under 1 hp.....	14,440	1,612	26,227	3,108
	1/3 hp.....	1,018	176	3,469	984
	Over 3 hp.....	119	184		
	Shallow well, total.....	262,357	17,477	366,982	327,226
	Jet total.....	182,854	11,838	229,251	17,722
	1/3 hp. and under.....	134,898	8,178	229,251	17,722
	1/2 hp.....	35,396	2,510		
	3/4 to 1 hp.....	9,812	861		
	Over 1 hp.....	2,748	289		
	Nonjet (except submersible), total.....	79,503	5,639	137,731	9,504
	Under 250 g.p.h.....	872	62	119,143	7,534
	250 to 499 g.p.h.....	65,810	4,098		
	500 g.p.h. and over.....	12,821	1,479		
	Convertible jet, total.....	186,994	13,997	(3)	(3)
	1/3 hp. and under.....	79,031	4,988		
	1/2 hp.....	87,217	6,773		
	3/4 to 1 hp.....	19,601	2,017		
	Over 1 hp.....	1,145	219		
	Submersible, total.....	77,633	16,680	43,362	11,343
	1/3 hp.....	8,673	1,050	43,362	11,343
	1/2 hp.....	28,816	4,415		
	3/4 to 1 hp.....	30,228	6,227		
	Over 1 hp.....	9,916	4,988		
	Domestic hand and windmill pumps, total.....	xxx	865	223,282	1,433
	Pitcher.....	85,127	363	169,483	650
	Other hand and windmill pumps (sold separately).....	25,524	502	53,799	783
	Pump jacks for domestic water systems.....	14,382	469	27,136	815
	Cylinders for domestic water systems (sold separately).....	95,827	1,165	168,830	1,445
3561200	Domestic water systems, not specified by kind.....	xxx	1,831	xxx	...
35613--	Air and gas compressors, except refrigeration compressors.....	xxx	239,885	xxx	220,248
	Air compressors:				
	Stationary (including automotive type):				
3561311	1-1/2 hp. and under.....	88,734	8,617	97,316	21,267
3561312	Over 1-1/2 hp. to and including 7-1/2 hp.....	33,793	14,346		
3561313	Over 7-1/2 hp. to and including 15 hp.....	7,656	9,013	9,273	6,550
3561315	Over 15 hp. to and including 100 hp.....	5,250	20,184	6,912	19,722
3561316	Over 100 to and including 250 hp.....	761	9,078	716	7,170
3561317	Over 250 to and including 1,000 hp.....	597	25,701	848	38,543
3561318-19	Over 1,000 hp.....	(NA)	6,969		
	Portable:				
3561331	150 cu. ft. of free air per minute and under.....	47,295	25,639	24,790	12,533
3561333	Over 150 to and including 400 cu. ft. free air per minute...	1,134	8,891	3,177	11,880
3561335	Over 400 cu. ft. free air per minute.....	1,437	21,767	716	7,333
	Gas compressors (except compressors for ice-making, refrigerating, and air conditioning units):				
3561341	Centrifugal and axial.....	1,335	22,292	4,891	91,821
	Reciprocating and rotary:				
	Integral diesel or gas engine powered:				
3561352	250 hp. and under.....	672	4,242		
3561358-57	Over 250 hp.....	426	44,257		
	Other than integral engine powered:				
3561362	250 hp. and under.....	275	2,098	14,347	
3561368-67	Over 250 hp.....	183	14,347		
3561300	Air and gas compressors, except refrigeration compressors, not specified by kind.....	xxx	3,442	xxx	3,429

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF PUMPS AND COMPRESSORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

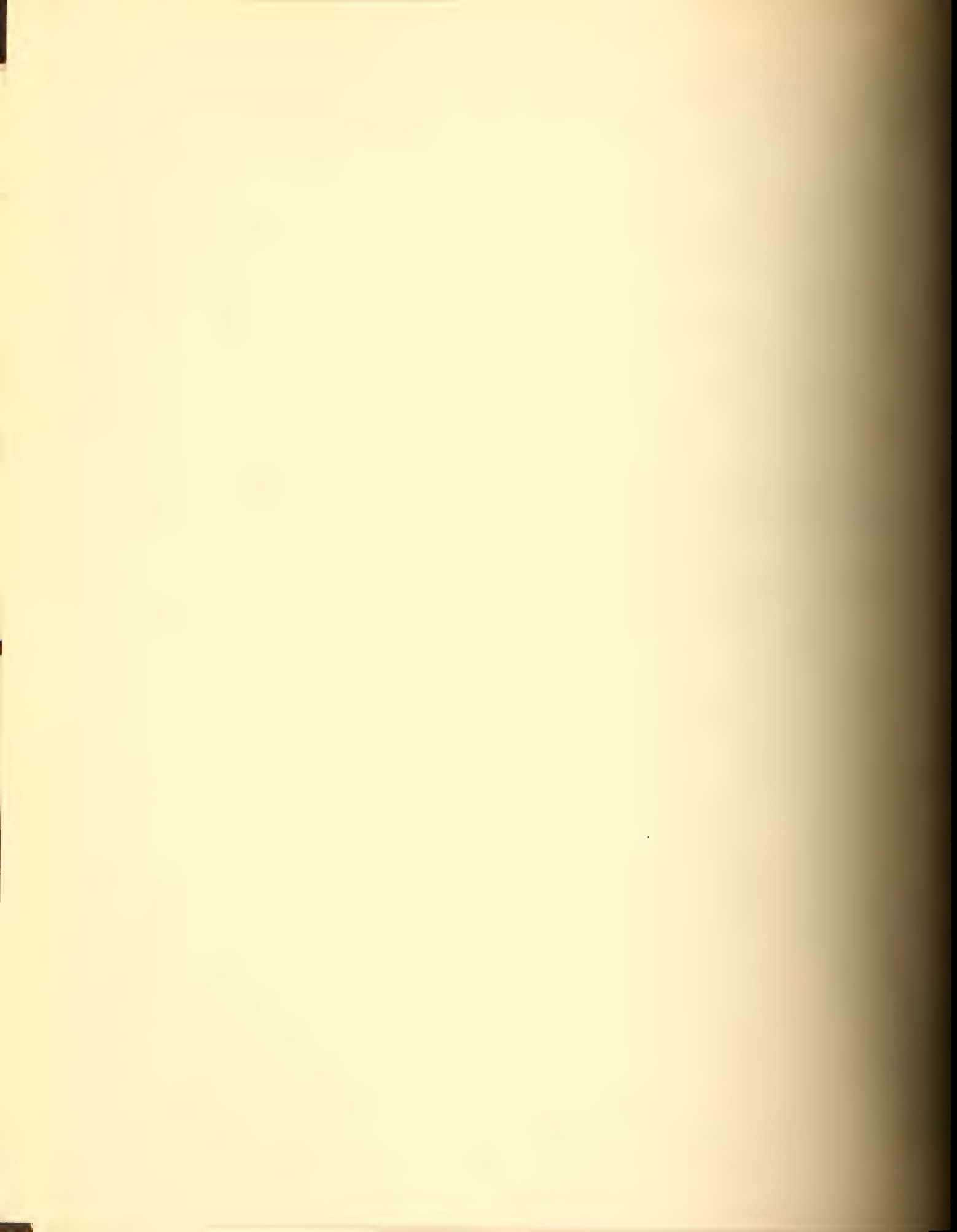
Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Pumps and compressors—Continued				
35614--	Industrial spraying equipment, total.....	xxx	38,536	xxx	22,575
3561412	Power paint-spraying outfits and liquid power sprayers (except agricultural).....	xxx	32,790	xxx	19,216
3561451	Hand sprayers (except agricultural and flame).....	339,272	3,584	xxx	2,143
3561400	Industrial spraying equipment, not specified by kind.....	xxx	2,162	xxx	1,216
35615--	Pumps and compressors, n.e.c., including oil well and oil-field pumps, but excluding refrigeration compressors.....	xxx	86,932	xxx	78,573
	Oil well and oil-field pumps (except boiler feed):				
3561511	Subsurface pumps for oil well pumping.....	xxx	25,146	xxx	22,191
3561513	Slush pumps.....	1,103	10,678	1,189	12,231
3561515	Other oil well and oil-field pumps.....	xxx	9,642	xxx	8,635
3561598	Other pumps and compressors (except automotive) (including oil burner and appliance pumps, dry vacuum pumps, fire engine pumps, etc.).....	xxx	41,466	xxx	35,516
3561611	Parts and attachments for pumps, air and gas compressors, and pumping equipment.....	xxx	174,708	xxx	145,022
356100	Pumps and compressors, not specified by kind.....	xxx	24,347	xxx	4,554

NA Not available.

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on Census Annual Form MA-35G. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting generally to less than—percent at the industry level and not more than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
 - Use of different bases for reporting value (company sales vs. factory production.)
 - Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
 - Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35G will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.
- ²Convertible jet-domestic water systems combined with jet domestic water systems.
- ³Convertible jet-domestic water systems combined with jet deep well domestic water systems and jet shallow well domestic water systems.



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-35E-1

TYPEWRITERS INDUSTRY

(Industry Code 3572—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Typewriters Industry shipped products valued at \$238 million, an increase of 33 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 7 percent from 1954 to 1958 to a total of 19.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$167 million in 1958, an increase of 27 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE TYPEWRITERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3572)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	19.7	18.4	+7
Payroll.....	Million dollars...	84.1	67.4	+25
Production workers:				
Number.....	Thousands.....	16.3	16.7	-2
Man-hours.....	Millions.....	29.7	32.6	-9
Wages.....	Million dollars...	64.4	60.1	+7
Value added by manufacture, unadjusted ².....	..do.....	167.3	131.3	+27
Value added by manufacture, adjusted.....	..do.....	168.5	137.0	+23
Cost of materials, fuel, electricity, and contract work.....	..do.....	67.4	44.7	+51
Value of shipments.....	..do.....	237.6	178.8	+33
Capital expenditures, new.....	..do.....	9.8	2.8	+250
Number of establishments with 20 or more employees.....	Number.....	11	14	-21

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Typewriters Industry includes establishments engaged primarily in the manufacture of typewriters and parts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Typewriters Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Typewriters Industry amounted to \$238 million. Of this total, \$187 million were products primary to the industry, \$42 million were products primary to other industries, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary products represented 82 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 80 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped

by all producers. The latter figure, appearing in table 3, indicates that \$188 million of Typewriters and parts were shipped by all producers of these products. Of this total, \$187 million, were shipped by plants classified in Industry 3572, Typewriters, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE TYPEWRITERS INDUSTRY (S.I.C. Code 3572) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	19,697	84,149	16,252	29,660	64,438	167,348	168,543	237,577	9,773	11	18,435	131,306
Northeast.....	16,989	68,489	14,599	26,237	56,554	134,409	138,610	188,738	(D)	8	17,922	128,567
New York.....	9,237	38,188	7,979	15,342	32,116	76,548	81,097	109,973	1,911	5	8,850	75,055
North Central, South, and West.....	2,708	15,660	1,653	3,423	7,884	32,939	29,933	48,839	(D)	3	512	2,738

(D) Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF TYPEWRITERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Including quantity and value of these products reported not only by establishments classified in the Typewriters Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3572 --	Typewriters and parts:				
3572010	Complete typewriters and parts as reported in Census of Manufacturers ¹	xxx	187,960	xxx	141,677
	Complete typewriters and parts as reported in Census Annual Form MA-35R, total ²	xxx	183,612	xxx	(NA)
	Complete typewriters, total.....	1,223,508	164,896	xxx	123,497
	Standard, total.....	1,215,874	150,892	1,111,025	117,580
	Non Portable, total.....	553,655	103,885	596,510	86,292
	Electric.....	199,613	55,388	117,979	32,341
	Manual.....	354,042	48,497	478,531	53,951
	Portable.....	662,219	47,007	514,515	31,288
	Specialized typewriters and typewriter principle machines (including continuous form handling machines without accounting registers, office composing machines, stencil cutting typewriters, and reproduction typewriters).....	7,634	314,004	(NA)	5,917
	Parts and attachments for typewriters, total.....	xxx	19,822		
	Made by manufacturers of complete typewriters.....	xxx	18,716	xxx	1,580
	Made by other manufacturers.....	xxx	1,106		

NA Not available.

xxx Not applicable.

¹Including rebuilt typewriters for which separate figures cannot be shown for 1958 without disclosing figures of individual companies. In 1954, the value of rebuilt typewriters shipped amounted to \$2,300 thousand.²This figure represents, complete typewriters and parts and attachments, sold separately, shipped by manufacturers of complete office machines as defined in Census Annual Form MA-35R, "Office Computing and Accounting Machines".³Represents a revision of the figure published in Facts For Industry, Series M35R, "Office, Computing, and Accounting Machines, 1958."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35E-2

SCALES AND BALANCES INDUSTRY

(Industry Code 3576--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Scales and Balances Industry shipped products valued at \$82 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 6 percent from 1954 to 1958 to a total of 5.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$52 million in 1958, an increase of 14 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SCALES AND BALANCES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3576)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.7	5.4	+6
Payroll.....	Million dollars...	28.3	21.3	+33
Production workers:				
Number.....	Thousands.....	3.8	4.1	-7
Man-hours.....	Millions.....	7.5	7.6	-1
Wages.....	Million dollars...	16.1	14.2	+13
Value added by manufacture, unadjusted ².....	..do.....	53.3	44.0	+21
Value added by manufacture, adjusted ³.....	..do.....	52.0	45.5	+14
Cost of materials, fuel, electricity, and contract work.....	..do.....	28.6	20.8	+37
Value of shipments ⁴.....	..do.....	82.0	65.1	+26
Capital expenditures, new.....	..do.....	1.5	1.1	+36
Number of establishments with 20 or more employees ⁵	Number.....	38	35	+9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Scales and Balances Industry includes establishments engaged primarily in the manufacture of weighing devices of all types, including those with automatic computing mechanisms and coin-operated scales. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Scales and Balances Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Scales and Balances Industry amounted \$82 million. Of this total, \$72 million were products primary to the industry, \$7 million were products primary to other industries, and \$3 million were receipts for miscellaneous activities. The industry shipments of primary products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$75 million of Scales and Balances were shipped by all producers of these products. Of this total, \$72 million, or 96 percent, were shipped by plants classified in Industry 3576, Scales and Balances, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SCALES AND BALANCES INDUSTRY (S.I.C. CODE 3576) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,733	28,335	3,798	7,472	16,077	53,280	52,016	81,999	1,512	38	5,381	44,047
Northeast.....	2,731	13,418	1,854	3,721	7,927	22,423	22,146	33,823	658	18	2,810	18,487
New York.....	838	3,857	612	1,184	2,549	6,378	6,572	10,898	39	5	823	5,168
North Central, South and West.....	3,002	14,917	1,944	3,751	8,150	30,857	29,870	48,176	854	20	...	...
Ohio.....	1,423	7,168	804	1,520	3,504	15,253	14,431	23,427	403	4	1,315	14,361
Illinois.....	1,108	5,243	779	1,508	3,031	10,725	10,520	16,638	302	9	907	8,205

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SCALES AND BALANCES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Scales and Balances Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3576---	Scales and balances, total.....	xxx	74,746	xxx	59,409
3576011	Scales and balances (except laboratory):				
	Railroad track and motor truck scales.....	xxx	6,477	xxx	4,878
	Industrial scales:				
3576021	Bench and portable.....	xxx	6,988	xxx	6,171
3576023	Built-in scales (includes floor and dormant).....	xxx	2,961	xxx	2,401
3576026	Predetermined-weight scales and automatic weighing and filling.....	xxx	11,695	xxx	9,023
3576029	Miscellaneous industrial scales (includes special purpose, crane, suspension, tank, and hopper scales.....	xxx	7,244	xxx	5,413
	Retail and commercial scales:				
3576031	Computing.....	29	11,627	35	6,179
3576035	Miscellaneous (includes non-computing counter, cotton beams and steel yards, egg grading scales and hanging scales for retail use).....	xxx	1,329	xxx	1,364
3576041	Household and person weighing scales:				
3576043	Bathroom.....	2,936	10,884	2,677	10,450
3576048	Person-weighing scales, coin operated and free weighing (except baby scales).....	24	1,293	27	1,447
3576048	Miscellaneous (kitchen, baby scales, etc.).....	xxx	1,429	xxx	1,892
3576051	Mailing and parcel post scales.....	126	2,025	xxx	1,247
3576071	Laboratory precision balances (includes accessories, attachments, and parts).....	xxx	3,761	xxx	2,659
3576083	Accessories, attachments, and parts for scales and balances (sold separately).....	xxx	4,881	xxx	6,285
3576000	Scales and balances, not specified by kind.....	xxx	2,152	xxx	xxx

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35E-3

COMPUTING AND RELATED MACHINES INDUSTRY

(Industry Code 3571—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Computing and Related Machines Industry shipped products valued at \$1,117 million, an increase of 79 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 45 percent from 1954 to 1958 to a total of 82.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$589 million in 1958, an increase of 45 percent from 1954

when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE COMPUTING AND RELATED MACHINES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3571)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	82.3	56.7	+45
Payroll.....	Million dollars...	480.0	275.8	+74
Production workers:				
Number.....	Thousands.....	51.4	45.0	+14
Man-hours.....	Millions.....	100.3	88.5	+13
Wages.....	Million dollars...	273.9	201.0	+36
Value added by manufacture, unadjusted ².....	..do.....	574.5	412.0	+39
Value added by manufacture, adjusted ³.....	..do.....	589.0	405.4	+45
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	530.5	210.5	+152
Value of shipments ⁵.....	..do.....	1116.9	624.2	+79
Capital expenditures, new.....	..do.....	61.9	31.6	+96
Number of establishments with 20 or more employees ⁶	Number.....	74	51	+45

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Computing and Related Machines Industry includes establishments engaged primarily in the manufacture of adding, calculating, tabulating and bookkeeping machines; electronic computing machines; card-punching, sorting and tabulating machines and cash registers. Establishments primarily engaged in manufacturing typewriters and billing machines without accounting registers, are classified in Industry 3572; office duplicating machines and devices, and autographic registers, in Industry 3579. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Computing and Related Machines Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Computing and Related Machines Industry amounted to \$1,117 million. Of this total, \$957 million were products primary to the industry, \$64 million were products primary to other industries, and \$96 million were receipts for miscellaneous activities. The industry shipments

of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 78 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,053 million of computing and related machines were shipped by all producers of these products. Of this total, \$956 million, or 91 percent, were shipped by plants classified in Industry 3571, computing and related machines, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE COMPUTING AND RELATED MACHINE INDUSTRY (S.I.C. CODE 3571), BY REGION AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	82,252	480,037	51,424	100,277	273,926	574,515	589,021	1,116,879	61,931	74	56,692	412,048
New England.....	3,931	18,902	2,807	5,260	11,608	26,386	24,561	39,607	1,102	10	3,449	23,729
Middle Atlantic.....	35,797	202,199	18,483	36,346	93,511	192,759	195,548	517,639	23,356	26	22,575	157,034
New York.....	31,032	177,718	15,045	29,381	77,064	163,250	164,736	447,694	22,114	19	20,742	142,490
North Central.....	31,122	189,460	23,803	46,049	136,907	270,095	280,703	422,767	25,812	16	25,439	193,354
Illinois.....	1,656	9,070	996	1,944	4,399	22,986	24,266	29,264	176	3	1,819	18,600
South.....	1,196	6,934	950	1,906	5,057	16,370	16,920	20,293	2,498	3	540	4,340
West.....	10,206	62,542	5,381	10,716	26,843	68,905	71,289	116,573	9,163	19	4,687	33,588

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF COMPUTING AND RELATED MACHINES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Computing and Related Machines Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of Shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3571---	Computing and related machines, total.....	xxx	1,052,682	xxx	501,311
3571012 (part)	Computing and accounting machines, including cash registers, coded media machines, etc., and parts and attachments:				
	As reported in the Census of Manufactures.....	xxx	1,968,021	xxx	501,311
	As reported on Census Annual Form MA-35R.....	xxx	1*943,908	xxx	...
	Accounting and bookkeeping machines (including billing machines with accounting registers).....	*39,033	*102,281	45,156	80,283
	Punched card systems and cash registers ²	xxx	194,498	xxx	190,592
	Adding machines, total.....	*304,361	*45,586	287,161	44,163
	Full keyboard electric.....	62,972	10,648	75,004	15,188
	10-key keyboard electric.....	*157,058	*27,334	92,189	21,456
	Full keyboard hand.....	45,854	3,935	63,140	5,634
	10-key keyboard hand.....	*38,477	*5,344	56,828	6,185
	Calculating machines, total.....	96,971	47,435	94,206	39,326
	Rotary and key driven hand calculating machines.....	3,505	1,171	6,656	2,817
	Rotary and key driven electric calculating machines and printing calculators.....	93,466	46,264	87,550	36,509
	Electronic computing and associated information processing equipment, total.....	(NA)	3*324,299		
	Digital:				
	General purpose.....	3,244	3*261,201		
	All other.....	(NA)			
	Analog.....	267	9,067		
	Electronic computing equipment, not specified by kind ⁴	xxx	54,031		
	Coded (stored) media data processing machines, other than punched card, sold separately, total.....	9,023	16,154	xxx	35,576
	Adding machines.....	897	902		
	Coded (stored) media data processing machines, n.e.c. (including accounting, bookkeeping and billing machines, cash registers, key operated and calculating machines).....	8,126	15,252		
	Other computing and calculating devices, n.e.c.....	8,358	8,365		
	Parts and attachments shipped by establishments manufacturing complete office, computing, and accounting machines.....	xxx	*161,594	xxx	5*64,945
	Rebuilt computing and accounting machines, and rebuilt cash registers.....	xxx	37,485	xxx	18,612
	Coin and currency handling machines.....	xxx	6,211	xxx	4,632
3571012 (part)	Parts and attachments shipped by establishments not manufacturing complete office, computing, and accounting machines.....	xxx	41,022	xxx	...
3571012 (part)	Other computing and related machines not included on Census Annual Form MA-35R ⁵	xxx	21,993	xxx	...
3571022	Revolution counters.....	1,555,226	15,256	xxx	7*18,582
3571000	Computing and accounting machines, not specified by kind.....	xxx	6,390	xxx	...

* Revised.

NA Not available.

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on Annual Form MA-35R. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to less than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35R will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report. Some corrections in the 1958 data on MA-35R have been made based on revised figures submitted on the Census of Manufactures reports.

²The number of cash registers shipped during 1954 and 1958 totaled 109,865 and 87,841, respectively.

³Figures include in some cases the value of leased machines as well as the value of machines sold outright.

⁴Represents primarily computers for aircraft, missiles, and related uses. Figure is based on Census of Manufactures reports.

⁵Includes figures for vest pocket and other simple adding or calculating devices.

⁶Represents automatic voting booths, electronic toll collecting equipment and pari-mutuel computing devices for racetracks.

⁷Represents counters and counting devices. Figures for revolution counters, as such, were included in Industry 3921, but no separate figures are available for this product.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-35E-4

OFFICE AND STORE MACHINES, N.E.C., INDUSTRY

(Industry Code 3579-SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Office and Store Machines, Not Elsewhere Classified, Industry shipped products valued at \$380 million, an increase of 29 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 12 percent from 1954 to 1958 to a total of 23.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$228 million in 1958, an increase of 21 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE OFFICE AND STORE MACHINES, N.E.C., INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3579)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	23.4	20.8	+12
Payroll.....	Million dollars...	118.0	91.2	+29
Production workers:				
Number.....	Thousands.....	16.7	15.8	+6
Man-hours.....	Millions.....	33.0	31.9	+3
Wages.....	Million dollars...	73.6	61.6	+19
Value added by manufacture, unadjusted ².....	..do.....	206.5	186.5	+11
Value added by manufacture, adjusted ³.....	..do.....	228.0	189.1	+21
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	150.3	103.3	+45
Value of shipments ⁵.....	..do.....	380.3	295.9	+29
Capital expenditures, new.....	..do.....	14.1	6.6	+114
Number of establishments with 20 or more employees ⁶	Number.....	117	94	+24

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Office and Store Machines, N.E.C., Industry includes establishments engaged primarily in the manufacture of store and office machines and devices, such as mimeograph and other duplicating devices, addressing and mailing machines and check-writing, signing and cancelling machines, perforators and other protective devices. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Office and Store Machines, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Office and Store Machines, N.E.C., Industry amounted to \$380 million. Of this total, \$281 million were products primary to the industry, \$42 million were products primary to other industries, and \$57 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product

shipments (primary and secondary). The 1954 ratio was 79 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$316 million of office and store machines and devices were shipped by all producers of these products. Of this total, \$281 million, or 89 percent, were shipped by plants classified in Industry 3579 Office and Store Machines, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE OFFICE AND STORE MACHINES N.E.C. INDUSTRY (S.I.C. CODE 3579) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	23,432	117,952	16,747	32,968	73,624	206,467	227,957	380,341	14,057	117	20,785	186,479
New England.....	4,746	24,503	3,203	6,694	15,530	45,822	49,715	69,085	6,631	12	5,225	47,143
Connecticut.....	2,704	15,681	1,722	3,996	9,666	27,971	30,714	37,288	(D)	5	3,637	37,128
Middle Atlantic.....	4,405	21,332	3,237	6,411	13,698	34,954	32,804	60,426	1,628	34	3,672	36,934
New York.....	2,250	10,405	1,640	3,273	6,667	19,259	17,633	33,954	811	24	1,541	21,416
New Jersey.....	1,766	9,255	1,253	2,423	5,674	13,375	12,865	22,788	753	5	1,906	13,575
Pennsylvania.....	389	1,672	344	715	1,357	2,320	2,306	3,684	64	5	224	1,942
North Central.....	13,083	66,445	9,401	17,932	41,000	115,864	135,149	234,083	5,109	55	11,517	99,660
Illinois.....	7,953	38,962	5,759	10,897	23,265	65,177	63,258	122,649	1,532	33	7,151	53,561
Michigan.....	99	523	73	146	323	981	995	1,458	(D)	3	103	753
Minnesota.....	251	1,145	200	414	775	1,436	1,521	4,222	110	4	104	541
South.....	515	1,995	403	794	1,223	3,720	3,818	5,746	269	4	119	731
West.....	683	3,677	503	1,137	2,173	6,107	6,471	11,001	420	12	251	2,009
California.....	637	3,463	464	1,014	1,995	5,881	6,424	10,452	382	11	251	2,009

¹ Withheld to avoid disclosing figures for individual companies.² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)³ Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁵ For explanation see text under "Value of shipments."⁶ Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF OFFICE AND STORE MACHINES, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the office and Store Machines, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of Shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3579--	Automatic merchandising machines, coin-operated amusement machines, and office and store machines, not elsewhere classified..	xxx	316,050	xxx	236,998
3579112	Coin-operated automatic merchandising (vending) machines, nonrefrigerated.....	xxx	49,769	xxx	30,021
35792--	Coin-operated amusement machines (except phonographs) including coin-operated mechanisms (for sale separately), total.	xxx	54,567	xxx	47,738
3579212	Pinball machines, and bell type machines and consoles.....	52,644	24,322	74,242	29,957
3579251	Coin-operated mechanisms (for sale separately).....	800,419	15,624	xxx	17,781
3579298	Other amusement machines (including strength testing, skill games, and other arcade pieces).....	xxx	14,621		
35793--	Office and store machines, n.e.c.:				
3579310	As reported in the Census of Manufactures.....	xxx	¹ 185,883	xxx	159,239
(part)	As reported on Census Annual Form MA-35R.....	xxx	¹ 184,452	xxx	xxx
	Duplicating machines, total.....	xxx	33,977	xxx	22,995
	Spirit machines, hand and electric.....	27,785	5,289	84,997	9,776
	Stencil machines, total.....	59,162	5,508		
	Hand.....	47,801	2,068		
	Electric.....	11,361	3,440		
	Offset.....	9,806	15,572	xxx	13,219
	Gelatin and other type machines, including ribbon and ink.....	11,248	1,669		
	Parts and attachments for duplicating machines, sold separately.....	xxx	5,939	xxx	(²)
	Other office, computing, and accounting machines, n.e.c., total.....	xxx	150,475	xxx	136,244
	Autographic registers.....	101,376	1,389	113,835	1,643
	Dictating machines (including dictating, transcribing, shaving, conference, recording, and combination dictating and telephone recording machines but excludes wire and tape recorders.).....	91,419	20,546	xxx	20,989
	Check handling machines (including cancelling, cutting, dating, endorsing, numbering, protecting, signing, sorting, and writing machines).....	xxx	13,118	xxx	9,469
	Time recording and time stamp machines, including watchmen's clocks.....	xxx	11,257	xxx	11,691
	Parts and attachments for office and store machines, n.e.c., shipped by establishments manufacturing complete office and store machines.....	xxx	16,135	xxx	20,552
	Addressing and plate embossing machines.....	xxx	*88,030	xxx	17,092
	Other office, computing, and accounting machines, n.e.c. (including postage meters and postal permit mailing machines; shorthand writing machines; rebuilt office, computing, and accounting machines, n.e.c., staplers; tape dispensers; envelope opening and sealing machines; label gummers; and price marking machines, etc.).....			xxx	54,808
3579310	Parts and attachments shipped by establishments not manufacturing complete office and store machines, n.e.c.....	xxx	18,570	xxx	...
3579000	Office and store machines not specified by kind.....	xxx	7,261	xxx	...

*Revised.

xxx Not applicable.

¹For the products identified by *italics*, data for 1958 were also collected on annual Form MA-35R. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting to less than five percent at the class of product level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey, whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35R will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report. Some corrections in the 1958 data on MA-35R have been made based on revised figures submitted on the Census of Manufactures reports.

²Included with "Parts and attachments for office and store machines, n.e.c."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC(P)-350-1
350-1
350-1

MEASURING AND DISPENSING PUMPS INDUSTRY

(Industry Code 3586--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Measuring and Dispensing Pumps Industry shipped products valued at \$119 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 16 percent from 1954 to 1958 to a total of 6.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$62 million in 1958, an increase of 5 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE MEASURING AND DISPENSING PUMPS INDUSTRY: 1958 AND 1954
(Standard Industrial Classification Code 3586)

Item	Unit of quantity	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.2	7.4	-16
Payroll.....	Million dollars..	33.0	34.2	-4
Production workers:				
Number.....	Thousands.....	3.8	5.2	-27
Man-hours.....	Millions.....	7.1	10.5	-32
Wages.....	Million dollars..	16.8	20.9	-20
Value added by manufacture, unadjusted ².....	.....do.....	62.1	58.9	+5
Value added by manufacture, adjusted ³.....	.....do.....	64.9	58.4	+11
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	54.0	50.8	+6
Value of shipments ⁵.....	.....do.....	119.5	111.6	+7
Capital expenditures, new.....	.....do.....	2.2	1.8	+22
Number of establishments with 20 or more employees ⁶	Number.....	2.1	1.9	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Measuring and Dispensing Pumps Industry includes establishments engaged primarily in the manufacture of measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Measuring and Dispensing Pumps Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Measuring and Dispensing Pumps Industry amounted to \$119 million. Of this total, \$79 million were products primary to the industry and \$40 million were products primary to other industries and receipts for miscellaneous activities.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped

by all producers. The latter figure, appearing in table 3, indicates that \$88 million of measuring and dispensing pumps were shipped by all producers of these products. Of this total, \$79 million, or 90 percent, were shipped by plants classified in industry 3586 while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE MEASURING AND DISPENSING PUMPS INDUSTRY (S.I.C. CODE 3586), BY REGIONS: 1958 AND 1954
(For explanation of column captions see Text)

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments (gross) ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	6,321	32,976	3,774	7,142	16,750	62,059	64,895	119,457	2,248	21	7,438	58,863
Northeast.....	1,369	7,477	822	1,490	3,998	10,565	10,721	21,644	256	4	2,028	12,794
East North Central.....	2,741	16,027	1,634	3,129	7,412	29,649	32,537	57,709	1,669	9	3,397	30,716
West North Central.....	1,451	6,587	838	1,668	3,600	13,224	13,295	19,190	228	5	1,278	9,992
South and West.....	670	2,885	480	855	1,740	8,621	8,342	20,914	95	3	734	5,359

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF MEASURING AND DISPENSING PUMPS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Measuring and Dispensing Pumps Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(number of units)	(number of units)	(\$1,000)	(number of units)	(number of units)	(\$1,000)
3586----	Measuring and dispensing pumps, total.....	xxx	xxx	88,217	xxx	xxx	*80,846
	Gasoline dispensing pumps (filling station type):						
	Computing:						
3586011	Single units.....	84,668	83,118	39,484	111,051	110,444	40,679
3586012	Dual units ¹	6,283	6,074	5,317			
3586013	Noncomputing ²	9,762	11,716	2,911			
3586021	Lubricating-oil outfits (including pump and tank).....	20,015	23,437	6,387	22,696	24,118	1,917
3586031	Lubricating-oil pumps (including barrel pumps).....	206,378	208,954	5,361	528,975	518,237	8,112
3586041	Grease pumps.....	xxx	xxx	5,518	xxx	xxx	5,692
3586051	Grease guns.....	xxx	xxx	6,338	xxx	xxx	4,548
3586015	Other measuring and dispensing pumps; including air-						
3586098	port fueling units and parts, and attachments for measuring and dispensing pumps, sold separately.....	xxx	xxx	16,901	xxx	xxx	*17,777

*Revised.

xxx Not applicable.

¹For 1958, twin pumps were counted as one unit. For 1954, twin pumps were counted as two units.

²For 1958 and 1954, twin pumps were counted as two units.



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-35F-2

COMMERCIAL LAUNDRY, DRY-CLEANING, AND PRESSING MACHINERY INDUSTRY

(Industry Code 3582--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Commercial Laundry, Dry-Cleaning, and pressing Machinery Industry shipped products valued at \$117 million, an increase of 13 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed no change from 1954 to 1958 totaling 6,5 thousand employees in both years. Value added by manufacture in the industry amounted to \$65 million in 1958, an increase of 14 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1--GENERAL STATISTICS FOR THE LAUNDRY AND DRY CLEANING MACHINERY INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3582)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.5	6.5	-
Payroll.....	Million dollars...	32.5	28.6	+14
Production workers:				
Number.....	Thousands.....	4.5	4.7	-4
Man-hours.....	Millions.....	9.2	9.5	-3
Wages.....	Million dollars...	20.0	18.2	+10
Value added by manufacture, unadjusted ²	do.....	63.3	54.2	+17
Value added by manufacture, adjusted ³	do.....	64.7	56.6	+14
Cost of materials, fuel, electricity, and contract work ⁴	do.....	52.3	46.2	+13
Value of shipments ⁵	do.....	116.9	103.7	+13
Capital expenditures, new.....	do.....	1.9	1.1	+73
Number of establishments with 20 or more employees ⁶	Number.....	45	46	-2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Commercial Laundry, Dry-cleaning, and Pressing Machinery Industry includes establishments engaged primarily in the manufacture of laundry and dry-cleaning equipment and pressing machines for commercial and industrial use. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Commercial Laundry, Dry-cleaning and Pressing Machinery Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Commercial Laundry, Dry-cleaning and Pressing machinery Industry amounted to \$117 million. Of this total, \$100 million were products primary to the industry, \$9 million were products primary to other industries, and \$8 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$106 million of laundry and dry cleaning machinery were shipped by all producers of these products. Of this total, \$100 million, or 94 percent, were shipped by plants classified in Industry 3582, commercial laundry, dry-cleaning and pressing machinery while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE LAUNDRY AND DRY-CLEANING MACHINERY INDUSTRY (S.I.C. 3582) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	6,450	32,491	4,496	9,183	19,999	63,337	64,718	116,900	1,909	45	6,543	54,218
New England.....	443	1,960	287	656	1,265	3,570	3,747	6,554	(D)	4	486	4,162
Middle Atlantic.....	1,995	9,561	1,380	2,795	6,343	18,408	19,186	32,568	482	12	2,320	20,214
New York.....	1,700	8,125	1,160	2,352	5,460	16,673	17,296	28,100	469	9	2,171	19,124
East North Central.....	2,480	13,519	1,608	3,240	7,329	25,340	25,486	44,804	522	17	2,829	21,698
Ohio.....	724	3,232	595	1,101	2,340	6,842	6,792	11,623	142	4	806	5,650
Illinois.....	985	5,521	606	1,228	2,858	10,089	9,964	17,552	152	8	1,080	8,888
West North Central.....	440	2,110	304	592	1,303	2,662	2,837	7,671	108	4	250	2,239
South.....	808	3,998	671	1,342	2,679	10,637	10,673	20,570	510	7	508	4,871
West.....	284	1,343	246	558	1,080	2,720	2,789	4,733	(D)	1	149	1,032

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF LAUNDRY AND DRY CLEANING MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Laundry and Dry Cleaning Machinery Industry but also by establishments making these items "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Quantity (Number of units)	Value (\$1,000)		Quantity (Number of units)	Value (\$1,000)
3582---	Laundry and dry-cleaning machinery, total.....	xxx	xxx	106,317	xxx	xxx	76,637
	Commercial laundry equipment and laundry presses.....	xxx	xxx	71,291	xxx	xxx	50,007
3582021	Washers only.....	5,442	5,489	11,262	7,074	7,022	12,946
3582022	Extractors only.....	4,149	4,329	5,604	5,268	5,292	5,184
3582025	Drying tumblers.....	41,623	41,818	17,756	8,795	8,762	4,494
3582026	Ironers, flat work.....	1,404	1,448	4,723	1,380	1,403	3,356
3582027	Presses, laundry.....	12,920	12,605	16,851	11,595	11,579	8,810
3582023	Washer-extractor combinations.....	513	513	1,690	xxx	xxx	
3582029	Other commercial laundry equipment and parts, accessories, and attachments.....	xxx	xxx	13,405	xxx	xxx	15,217
	Dry cleaning equipment and clothing presses.....	xxx	xxx	26,907	xxx	xxx	26,630
	Dry cleaning units:						
3582031	Synthetic type.....	1,676	1,813	8,309	1,664	1,595	7,114
3582035	Other type.....	136	138	467	282	274	1,197
3582057	Dry cleaning (tailor type) presses.....	1,100	2,134	1,317	8,847	8,941	5,167
3582052	Washer-extractors.....	975	1,046	3,644	xxx	xxx	
3582081	Other dry cleaning equipment and parts, accessories, and attachments including washers, extractors, drying tumblers, solvent coolers, and reclaiming units, etc.....	...	...	13,170	xxx	xxx	13,152
3582000	Commercial laundry, dry-cleaning and pressing machinery, not specified by kind.....	xxx	xxx	8,119	xxx	xxx	...

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35F-3

SEWING MACHINES INDUSTRY

(Industry Code 3583—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Sewing Machines Industry shipped products valued at \$110 million, a decrease of 7 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 23 percent from 1954 to 1958 to a total of 9.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$61 million in 1958, a decrease of 13 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SEWING MACHINES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3583)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.6	12.4	-23
Payroll.....	Million dollars...	48.4	56.6	-15
Production workers:				
Number.....	Thousands.....	7.0	9.4	-25
Man-hours.....	Millions.....	13.4	19.1	-30
Wages.....	Million dollars...	32.8	40.7	-19
Value added by manufacture, unadjusted ².....	...do.....	61.4	76.6	-20
Value added by manufacture, adjusted ³.....	...do.....	61.3	70.3	-13
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	44.9	38.8	+16
Value of shipments ⁵.....	...do.....	109.5	117.6	-7
Capital expenditures, new.....	...do.....	5.4	3.0	+80
Number of establishments with 20 or more employees ⁶	Number.....	17	28	-39

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Sewing Machines Industry includes establishments engaged primarily in the manufacture of sewing machines for domestic and industrial use and sewing machine parts and attachments. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Sewing Machines Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Sewing Machines Industry amounted to \$110 million. Of this total, \$92 million were products primary to the industry, \$3 million were products primary to other industries, and \$15 million were receipts for miscellaneous activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$98 million of sewing machines were shipped by all producers of these products. Of this total, \$92 million, or 94 percent, were shipped by plants classified in Industry 3583, Sewing Machines, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SEWING MACHINES INDUSTRY (S.I.C. Code 3583), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,614	48,391	7,008	13,394	32,813	61,376	61,250	109,500	5,379	17	12,414	76,602
New England.....	2,088	10,882	1,436	2,790	6,807	12,020	13,549	16,403	318	4	2,868	18,196
Middle Atlantic.....	5,925	29,516	4,468	8,405	21,147	33,787	32,381	58,769	4,635	8	6,934	38,446
North Central, South and West.....	1,601	7,993	1,104	2,199	4,859	15,569	15,320	34,328	426	5	2,610	19,958

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SEWING MACHINES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Sewing Machines Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 heads)	Value (\$1,000)	Quantity (1,000 heads)	Value (\$1,000)
3583--	Sewing machines, total.....	xxx	97,721	xxx	107,492
35831--	Household sewing machines (including heads:				
	For sale with cabinets or cases and heads for sale separately), total.....	(D)	(D)	740	46,426
3583111	Electric cabinet.....	(D)	(D)	385	25,895
3583131	Electric portable.....	(D)	(D)	355	20,531
3583151	Nonelectric.....	(D)	(D)		
3583211	Industrial sewing machines (except shoe sole stitching machines)...	75	25,874	116	28,017
3583311	Sewing machine parts and attachments for household and industrial sewing machines (except cases and cabinets).....	xxx	172,013	xxx	33,049
3583000	Sewing machines, not specified by kind.....	xxx	939	xxx	

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

¹Includes the value of shipments of household sewing machines.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35F-4

DOMESTIC LAUNDRY EQUIPMENT INDUSTRY

(Industry Code 3581--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Domestic Laundry Equipment Industry shipped products valued at \$744 million, an increase of 37 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 11 percent from 1954 to 1958 to a total of 24.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$324 million in 1958, an increase of 70 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE DOMESTIC LAUNDRY EQUIPMENT INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3581)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	24.6	22.1	+11
Payroll.....	Million dollars...	134.3	98.6	+36
Production workers:				
Number.....	Thousands.....	18.0	16.7	+8
Man-hours.....	Millions.....	35.8	32.5	+10
Wages.....	Million dollars...	89.6	68.1	+32
Value added by manufacture, unadjusted ².....	...do.....	312.2	207.4	+51
Value added by manufacture, adjusted ³.....	...do.....	324.5	190.7	+70
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	427.2	331.9	+29
Value of shipments ⁵.....	...do.....	743.5	541.3	+37
Capital expenditures, new.....	...do.....	7.2	18.6	-61
Number of establishments with 20 or more employees ⁶	Number.....	33	39	-15

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Domestic Laundry Equipment Industry includes establishments engaged primarily in the manufacture of laundry equipment such as washing machines, wringers, driers, and ironers for household use. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Domestic Laundry Equipment Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Domestic Laundry Equipment Industry amounted to \$744 million. Of this total, \$659 million were products primary to the industry, \$63 million were products primary to other industries, and \$19 million were receipts for miscellaneous activities. The industry shipments of primary products represented 91 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$720 million of domestic laundry equipment were shipped by all producers of these products. Of this total, \$659 million, or 92 percent, were shipped by plants classified in Industry 3581, Domestic Laundry Equipment, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE DOMESTIC LAUNDRY EQUIPMENT (S.I.C. CODE 3581), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	24,594	134,331	18,020	35,800	89,644	312,247	324,479	743,506	7,209	33	22,105	207,395
East North Central.....	13,851	72,172	10,407	20,410	53,622	179,152	181,037	465,236	2,911	19	12,970	128,689
Ohio.....	6,728	40,630	5,089	10,043	28,518	108,972	117,920	233,212	1,701	7	2,653	27,385
Illinois.....	3,385	15,036	2,639	5,029	10,663	25,274	23,388	78,553	180	5	5,337	33,509
West North Central.....	4,331	23,168	3,041	6,489	14,354	63,634	63,016	127,807	(D)	7	4,416	39,269
All other divisions....	6,412	33,991	4,572	8,901	21,668	69,461	80,426	150,463	(D)	7	4,717	39,437

(D) Withheld to avoid disclosing figures of individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY OF PRODUCTION, QUANTITY AND VALUE OF DOMESTIC LAUNDRY EQUIPMENT SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Domestic Laundry Equipment Industry but also by establishments making these products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (1,000 units)	Total shipments including interplant transfers		Total production (1,000 units)	Total shipments including interplant transfers	
			Quantity (1,000 units)	Value (\$1,000)		Quantity (1,000 units)	Value (\$1,000)
3581---	Domestic laundry equipment, total.....	xxx	xxx	719,574	xxx	xxx	596,349
35811--	Household mechanical, washing machines.....	xxx	xxx	492,152	xxx	xxx	435,853
	Washing machines, mechanical:						
	Standard size, electrically driven:						
3581131	Full automatic.....	2,735	2,821	407,832	2,315	2,285	324,286
3581133	Semiautomatic.....						
3581136	Nonautomatic wringer type and spinner.....	993	989	82,880	1,191	1,245	101,896
3581198	All other, including gasoline driven and small size.....	xxx	xxx	1,440	xxx	xxx	2,149
35812--	Other household laundry equipment.....	xxx	xxx	187,183	xxx	xxx	122,639
	Dryers, mechanical:						
3581211	Gas.....	368	385	45,883	242	246	28,907
3581215	Electric.....	828	872	93,836	646	661	68,951
3581232	Ironers, mechanical, including table, cabinet, and portable....	xxx	xxx	(1)	89	89	8,292
3581241	Washer-dryer combinations (electric and gas).....	163	164	40,342	(NA)	(NA)	(NA)
3581245							
3581298	Other household laundry equipment, including wringers.....	xxx	xxx	17,122	xxx	xxx	16,489
3581311	Parts, accessories, and attachments for household laundry equipment.....	xxx	xxx	39,376	xxx	xxx	37,857
3581000	Domestic laundry equipment, not specified by kind.....	xxx	xxx	863	xxx	xxx	...

xxx Not applicable.

NA Not available.

¹Figures for mechanical ironers are included with "Other household laundry equipments, including wringers" in order to avoid disclosing figures of individual companies.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-35F-5

VACUUM CLEANERS INDUSTRY

(Industry Code 3584--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Vacuum Cleaners Industry shipped products valued at \$154 million, a decrease of 6 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 31 percent from 1954 to 1958 to a total of 5.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$89 million in 1958, a decrease of 1 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE VACUUM CLEANERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3584)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.8	8.4	-31
Payroll.....	Million dollars...	32.6	38.9	-16
Production workers:				
Number.....	Thousands.....	4.1	6.4	-36
Man-hours.....	Millions.....	8.1	12.7	-36
Wages.....	Million dollars...	19.3	26.9	-28
Value added by manufacture, unadjusted ².....	...do.....	91.1	91.9	-1
Value added by manufacture, adjusted ³.....	...do.....	89.2	89.9	-1
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	62.2	68.1	-9
Value of shipments ⁵.....	...do.....	153.7	162.6	-6
Capital expenditures, new.....	...do.....	2.2	2.1	+5
Number of establishments with 20 or more employees ⁶	Number.....	20	21	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Vacuum Cleaners Industry includes establishments engaged primarily in the manufacture of vacuum cleaners for domestic and industrial use. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Vacuum Cleaners Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Vacuum Cleaners Industry amounted to \$154 million. Of this total, \$138 million were products primary to the industry, \$12 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 80 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$168 million of vacuum cleaners, attachments and cleaning tools and parts were shipped by all producers of these products. Of this total, \$138 million, or 82 percent, were shipped by plants classified in Industry 3584, Vacuum Cleaners, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE VACUUM CLEANERS INDUSTRY (S.I.C. Code 3584) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,834	32,624	4,083	8,136	19,295	91,141	89,244	153,663	2,215	20	8,383	91,850
East North Central.....	4,200	23,829	2,829	5,722	13,494	64,595	61,874	108,690	1,734	12	6,426	62,647
Ohio.....	3,040	17,583	2,106	4,315	10,624	56,332	54,236	87,761	(D)	7	4,267	46,315
Illinois.....	1,107	5,954	694	1,348	2,750	7,696	7,044	19,997	(D)	4	2,089	15,493
All Other Divisions....	1,634	8,795	1,254	2,414	5,801	26,546	27,370	44,973	481	8	1,957	29,203

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF VACUUM CLEANERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Vacuum Cleaners Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (1,000 units)	Total shipments including interplant transfers		Total production (1,000 units)	Total shipments including interplant transfers	
			Quantity (1,000 units)	Value (\$1,000)		Quantity (1,000 units)	Value (\$1,000)
3584---	Vacuum cleaners, total.....	xxx	xxx	167,894	xxx	xxx	144,182
35841--	Household type vacuum cleaners, including attachments and cleaning tools and parts.....	xxx	xxx	155,220	xxx	xxx	138,774
3584111	Hand type.....	95	71	1,088	113	120	1,953
3584131	Upright tank, canister, and other general purpose household types.....	3,002	3,144	139,551	2,594	2,616	119,551
3584151	Attachments or cleaning tools.....	xxx	xxx	13,879	xxx	xxx	217,270
3584171	Parts for household type vacuum cleaners.....	xxx	xxx	702	xxx	xxx	xxx
3584199	Household type vacuum cleaners, not specified by kind.....	xxx	xxx		xxx	xxx	
35842--	Commercial and industrial vacuum cleaners, including attachments and parts.....	xxx	xxx	12,674	xxx	xxx	(NA)
3584211	Portable.....	93	96	10,345	43	44	5,408
3584298	Central system including parts and attachments for all types of commercial and industrial vacuum cleaners.....	xxx	xxx	2,329	xxx	xxx	(²)

NA Not available.

xxx Not applicable.

¹Includes value of attachments and cleaning tools shipped with vacuum cleaners, as well as those shipped separately.²Figures for commercial and industrial central system vacuum cleaners, including parts and attachments for such cleaners, were included with parts for household type vacuum cleaners.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-35F-6

REFRIGERATION MACHINERY INDUSTRY

(Industry Code 3585--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacturers in the Refrigeration Machinery Industry amounted to \$1,051 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average 1958 employment in this industry totaled 111.6 thousand employees, a decrease of 13 percent from 1954 when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels,

etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE REFRIGERATION MACHINERY INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3585)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	111.6	128.3	-13
Payroll.....	Million dollars...	574.5	567.1	+1
Production workers:				
Number.....	Thousands.....	80.9	98.9	-18
Man-hours.....	Millions.....	159.7	194.5	-18
Wages.....	Million dollars...	377.5	397.0	-5
Value added by manufacture, unadjusted ².....	..do.....	1,096.9	1,006.2	+9
Value added by manufacture, adjusted ³.....	..do.....	1,051.1	986.8	+7
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	(4)	(4)	xxx
Value of shipments.....	..do.....	(4)	(4)	xxx
Capital expenditures, new.....	..do.....	31.7	107.7	-71
Number of establishments with 20 or more employees ⁵	Number.....	311	297	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Refrigeration Machinery Industry includes establishments engaged primarily in the manufacture of mechanical and absorption refrigerators for commercial, industrial, and household use, refrigeration machinery, ice-making machinery and equipment, refrigerated show cases and cabinets and complete air-conditioner units for domestic, commercial, and industrial use. Establishments primarily manufacturing soda fountain and beer-dispensing equipment are classified in Industry 3997, Soda Fountain and Bar Equipment. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS AND COST OF MATERIALS

The total cost of materials and total value of shipments of the Refrigeration Machinery Industry have not been published because of the extensive duplication contained in these data. This duplication results from the intra-industry shipments of certain products by some establishments for use as materials by others. For this reason, the "primary product specialization ratio" a measure to the extent of which plants classified in an industry "specialize" in making the products regarded as primary to the industry, could not be computed precisely.

The ratio, however, is between 85 and 100, with the principal secondary products shipped by establishments classified in this industry consisting of electric appliances, pumps and compressors, aircraft parts and ordnance. Since this duplication is also contained in the value of refrigeration machinery shipped by all producers, the total of such shipments is not shown in Table 3.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE REFRIGERATION MACHINERY INDUSTRY (S.I.C. CODE 3585) BY REGIONS AND STATES: 1953 AND 1954

Region and State ¹	1953										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	111,572	574,533	80,884	159,739	377,513	1,096,878	1,051,069	(4)	31,733	311	128,283	1,006,193
New England.....	4,277	22,798	3,309	6,821	16,294	49,516	45,183		702	15	7,525	62,431
Massachusetts.....	3,182	17,375	2,460	4,988	12,434	41,837	37,117		441	11	6,234	52,821
Connecticut.....	1,081	5,357	838	1,811	3,808	7,536	7,920		258	4	1,241	9,364
Middle Atlantic.....	19,441	101,202	11,748	23,324	52,466	170,822	177,963		8,258	61	27,834	266,071
New York.....	9,777	53,655	5,207	10,154	23,397	99,602	109,302		6,290	26	10,821	126,685
New Jersey.....	3,715	20,051	2,117	4,278	10,447	22,989	23,955		696	12	3,568	21,210
Pennsylvania.....	5,949	27,496	4,424	8,892	18,622	48,231	44,706		1,272	23	13,445	118,175
East North Central.....	55,209	295,455	41,871	82,728	203,649	544,461	516,809		15,911	101	68,510	486,668
Ohio.....	21,617	123,698	17,252	34,643	94,193	222,872	215,757		3,948	22	26,287	158,676
Indiana.....	9,831	47,209	7,556	14,797	33,672	100,595	80,188		2,656	14	14,663	105,457
Illinois.....	5,420	26,723	3,886	7,997	17,972	51,768	53,970		3,871	24	6,725	74,713
Michigan.....	12,720	68,799	9,358	17,836	45,100	114,984	112,840		2,674	26	16,206	114,458
Wisconsin.....	5,621	29,026	3,819	7,455	17,712	54,242	54,054		2,762	15	4,627	33,361
West North Central.....	13,367	62,251	9,533	18,234	39,607	117,473	110,157		2,400	40	12,776	104,159
Minnesota.....	6,110	26,461	4,757	8,948	18,350	58,425	55,469		1,039	12	4,516	36,921
Missouri.....	4,676	23,209	3,250	6,669	14,155	38,815	38,450		853	17	5,268	37,446
South Atlantic.....	3,068	12,741	2,217	4,338	7,622	23,167	21,731		764	23	2,211	12,593
Virginia.....	666	3,209	448	913	1,793	7,311	5,030		(D)	4	209	2,134
Florida.....	268	1,082	181	383	686	1,602	1,687		33	4	37	357
East South Central.....	6,767	35,887	5,346	10,167	24,969	112,410	98,589		1,440	10	1,873	16,602
West South Central.....	4,206	18,120	3,166	6,546	11,040	33,809	36,394		1,115	26	2,823	25,381
Texas.....	3,871	16,650	2,922	6,088	10,125	31,390	33,940		1,000	21	2,586	23,595
Mountain.....	1,063	4,031	779	1,692	3,011	7,256	7,290		217	4	828	4,044
Pacific.....	4,174	22,048	2,915	5,889	13,855	37,964	36,953		926	31	3,899	28,242
California.....	3,853	20,338	2,704	5,446	12,805	35,229	33,933		857	28	3,665	26,847

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1952 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Refrigeration Machinery Industry but also by establishments making items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (Number of units)	Total shipments including interplant transfers		Total production (Number of units)	Total shipments including interplant transfers	
			Quantity (Number of units)	Value (\$1,000)		Quantity (Number of units)	Value (\$1,000)
3585---	Refrigeration machinery, total.....	xxx	xxx	(1)	xxx	xxx	(1)
35851--	Household refrigerators including electric and gas, total.....	3,035,292	3,151,160	550,958	3,387,102	3,536,839	573,074
	Household mechanical refrigerators (including combination refrigerator-freezers):						
	Complete units:						
3585111	5.4 cu. ft. and under.....	28,736	26,014	3,389	43,429	46,798	5,199
3585112	5.5-6.4 cu. ft.....				59,818	71,455	8,490
3585113	7.4 cu. ft. and under.....				165,617	203,357	22,453
3585114	7.5-8.4 cu. ft.....				950,031	920,574	114,639
3585115	8.5-9.4 cu. ft.....	356,334	378,738	42,852	421,139	506,196	74,219
3585116	9.5-10.4 cu. ft.....	254,230	236,074	27,772	35,635	574,582	107,446
3585117	10.5-11.4 cu. ft.....	269,010	265,833	35,635	574,582	618,518	117,305
3585121	11.5-12.4 cu. ft.....	743,908	781,370	113,146	587,684	619,891	118,107
3585121	11.5-12.4 cu. ft.....	687,415	716,968	144,116	561,737	527,518	117,305
3585122	12.5-13.4 cu. ft.....	269,812	289,861	57,744			
3585129	13.5 cu. ft. and over.....	410,458	434,721	120,175			
3585131	Range-refrigerator combinations.....	15,379	21,581	6,129	23,065	22,532	5,216
35852--	Home and farm freezers, total.....	955,925	996,973	178,006	852,072	860,032	172,370
	Home and farm freezers, complete units (for freezing food, storing frozen food, or both purposes):						
3585221	8.4 cu. ft. and under.....	20,636	19,704	2,621	45,634	47,352	5,873
3585222	8.5-10.4 cu. ft.....	59,603	60,968	7,682	189,670	186,557	31,626
3585223	10.5-12.4 cu. ft.....	133,427	137,634	20,235			
3585224	12.5-14.4 cu. ft.....	159,306	153,774	26,428			
3585225	14.5-15.4 cu. ft.....	136,750	144,356	24,131			
3585226	15.5-16.4 cu. ft.....	48,674	60,002	10,476	214,381	223,769	51,849
3585227	16.5-20.4 cu. ft.....	254,784	265,049	53,001			
3585229	20.5 cu. ft. and over.....	142,745	155,486	33,432	42,277	44,150	12,349
35853--	Unitary commercial refrigeration equipment, except coin-operated automatic merchandising machines, total.....	xxx	xxx	244,474	xxx	xxx	202,302
	Mechanical units (including (a) self-contained units, (b) remote units with or without condensing units and (c) cabinets; cabinets shipped to other manufacturers of commercial refrigeration equipment are shown under code 3585389):						
3585312	Walk-in coolers.....	xxx	17,565	18,104	xxx	10,829	11,252
3585316	Reach-in refrigerators (except dairy refrigerators and wall boxes, and florists' cabinets).....	xxx	27,121	15,530	xxx	23,336	11,381
3585317	Dairy refrigerators and wall boxes.....	xxx	6,930	4,273	xxx	8,140	4,987
	Display cases for meat, dairy products, fish and vegetables (except frozen food):						
3585322	Closed.....	xxx	11,495	6,872	xxx	18,611	12,282
	Open or self service:						
3585324	Single-duty.....	xxx	19,973	12,104	xxx	25,249	14,482
3585326	Double-duty.....	xxx	17,188	13,497	xxx	17,937	12,437
3585328	Multiple deck.....	xxx	12,865	11,000	xxx	(NA)	(NA)
	Low temperature freezing and dispensing equipment (except coin-operated):						
3585332	Frozen food display cases, open or self-service.....	xxx	45,596	33,091	xxx	29,216	21,600
3585334	Frozen food cabinets, upright freezers, etc., closed types..	xxx	9,668	5,734			
3585336	Ice cream counter freezers (include frozen custard machines)	xxx	3,065	5,281			
3585338	Ice cream dispensing and hardening cabinets.....	xxx	43,037	15,966			
	Mechanical drinking water coolers:						
3585343	As reported in the Census of Manufactures.....	xxx	xxx	222,030	xxx	131,328	22,266
	As reported on Census Annual Form MA-35M.....	xxx	139,276	220,390	xxx	xxx	xxx
	Mechanical beverage-cooling and dispensing equipment (except coin-operated):						
3585352	Bottled beverage coolers, dry and wet types.....	41,245	39,920	11,331	65,763	66,126	14,497
3585357	Bulk beverage dispensers (include malt dispensers and pre-cooler cabinets).....	36,121	39,053	7,363	40,369	42,062	6,518
	Farm and dairy milk coolers:						
3585372	Immersion type (mechanically refrigerated).....	13,294	13,662	5,210	11,622	11,841	5,154
3585375	Bulk tank storage coolers.....	8,048	16,410	26,152	(NA)	(NA)	(NA)
3585379	Other commercial mechanical refrigeration units (includes florists' cabinets, dough retarders, egg refrigeration cases, low temperature laboratory and industrial equipment, mortuary refrigerators, etc.).....	xxx	xxx	10,447	xxx	xxx	21,784
	Nonmechanical units:						
	Nonmechanical bottled beverage and water coolers.....	xxx	xxx	xxx	xxx	23,304	1,162
	Other nonmechanical units.....	xxx	xxx	xxx	xxx	16,070	1,525
3585389	Cabinets (for mechanical units) shipped to other manufacturers of commercial refrigeration equipment.....	xxx	2,329	1,547	xxx	xxx	642
3585300	Unitary commercial refrigeration equipment, not specified by kind	xxx	xxx	18,942	xxx	xxx	7,193

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	1958			1954		
		Total shipments including interplant transfers		Number of compressor bodies manu- factured	Total shipments including interplant transfers		Number of compressor bodies manu- factured
		Quantity (Number of units)	Value (\$1,000)		Quantity (Number of units)	Value (\$1,000)	
	Refrigeration machinery—Continued						
35854--	Compressors and compressor units, total.....	xxx	203,471	xxx	xxx	162,991	xxx
3585414	Compressors and motor compressors for household refrigerators...	1,380,050	29,972	(NA)	727,659	16,047	2,090,610
3585420	Compressors and compressor units (except for household refrigerators) and centrifugal refrigeration systems: As reported in the Census of Manufactures.....	xxx	2175,499	xxx	2,207,560	146,598	2,711,174
	As reported on Census Annual Form NA-35M.....	2,960,247	2171,952	4,032,179	xxx	xxx	xxx
	All refrigerants (except ammonia), total.....	2,957,112	134,243	4,030,318	2,204,914	121,104	2,709,114
	20 hp. and under, hermetic motor compressors and/or power units, total ³	2,463,825	99,648	3,577,746	2,199,637	110,257	2,700,221
	3/4 hp. and under.....	2,420,384	90,733	1,819,607	2,037,872	88,088	2,440,276
	1 hp.....			909,412		61,521	72,828
	1-1/2 hp.....			285,346		9,645	120,395
	2 hp.....			310,749		15,303	44,238
	3 hp.....			115,130		5,448	16,230
	5 hp.....	43,441	8,915	79,629			
	7-1/2 hp.....			39,972			
	10 hp.....			11,803			
	15 hp.....			4,370	3,857	3,495	6,254
	20 hp.....			1,728			
	20 hp. and under, open-type compressors (with or without motors), total ³	44,151	5,203				
	3/4 hp. and under.....	20,339	627				
	1 hp.....	1,847	110				
	1-1/2 hp.....	1,199	100				
	2 hp.....	5,081	315				
	3 hp.....	6,628	629	(4)	(4)	(4)	(4)
	5 hp.....	3,803	906				
	7-1/2 hp.....	2,158	544				
	10 hp.....	1,039	485				
	15 hp.....	1,211	776				
	20 hp.....	846	711				
	Over 20 hp., (open and hermetic types), total.....	5,601	8,525	9,037	5,277	510,847	5,893
	Over 20 hp. but not over 25 hp.....	1,094	1,162	2,174	1,193	1,459	1,375
	30 hp.....	1,324	1,422	1,684			
	40 hp.....	1,107	1,509	2,016	1,670	2,693	
	50 hp.....	791	1,417	1,151	1,010	2,287	
	60 hp.....	594	1,141	1,017	560	1,223	
	75 hp.....	373	880	576	276	977	7,518
	100 hp.....	215	600				
	Over 100 hp.....	103	394	419	568	2,208	
	Automotive air-conditioning (open type, with or without motor) ⁶	443,535	20,867	443,535	(NA)	(NA)	(NA)
	Ammonia refrigerants, total.....	2,045	5,666	1,861	2,090	5,626	2,060
	7-1/2 hp. and under.....				249	209	
	10 hp.....	288	270				
	15 hp.....	78	103		251	263	
	20 hp.....	296	423		273	434	
	25 hp.....	192	350		145	262	
	30 hp.....	173	394		203	516	
	40 hp.....	226	547	1,861	225	514	2,060
	50 hp.....	140	398				
	60 hp.....	238	754		355	1,132	
	75 hp.....	146	519		151	566	
	100 hp.....	81	389		93	419	
	101-200 hp.....	161	1,052		115	811	
	201 hp. and over.....	26	467		30	500	
	Total shipments including interplant transfers						
		1958		1954			
		Quantity (Number of units)	Value (\$1,000)	Quantity (Number of units)	Value (\$1,000)		
	Centrifugal refrigeration systems, total.....	1,090	32,043	556	19,868		
	Hermetic type, total.....	948	25,769	556	19,868		
	100 hp. and under.....						
	101-200 hp.....	475	8,885	64	1,017		
	201-300 hp.....	216	5,881	145	3,403		
	301-400 hp.....	122	4,307	120	3,613		
	401-500 hp.....	68	2,893				
	501-1,000 hp.....			227	11,835		
	Over 1,000 hp.....	67	3,803				

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Refrigeration machinery—Continued				
	Compressors and compressor units—Continued				
	Compressors and motor compressors (except for household refrigerators)—Continued				
	Centrifugal refrigeration systems—Continued				
	Open type, total.....	142	6,274		
	101-200 hp.....	13	307		
	201-300 hp.....	20	546		
	301-400 hp.....			(7)	(7)
	401-500 hp.....				
	501-1,000 hp.....	109	5,421		
	Over 1,000 hp.....				
	Number of water chilling units included above.....	1,045	xxx	(NA)	(NA)
	Number of brine chilling units included above.....	45	xxx	(NA)	(NA)
3585400	Compressors and compressor units, not specified by kind.....	xxx	68	xxx	346
35855--	Condensing units, total.....	xxx	80,700	894,878	85,240
3585514	Condensing units for household refrigerators (air-cooled hermetic-type).....	278,065	16,286	324,460	21,541
3585520	Condensing units (except for household refrigerators):				
	As reported in the Census of Manufactures.....	xxx	² 64,414	570,418	63,699
	As reported on Census Annual Form MA-35M.....	530,419	² 62,104	xxx	xxx
	All refrigerants (except ammonia), total.....	530,389	62,054	570,297	63,467
	Air-cooled, total.....	485,061	43,639	516,162	42,123
	Open-type, total.....	26,560	4,671	51,460	7,445
	1/4 hp. and under.....			7,099	464
	1/3 hp.....			10,513	829
	1/2 hp.....	15,674	1,681	10,090	1,075
	3/4 hp.....			6,904	980
	1 hp.....	3,165	524	6,276	1,117
	1-1/2 hp.....	2,252	584	3,758	924
	2 hp.....	2,144	623	3,744	1,026
	3 hp.....				
	5 hp.....	3,325	1,259	3,076	1,030
	Over 5 hp.....				
	Hermetic-type, total.....	458,501	38,968	464,702	34,678
	1/5 hp. and under.....	74,706	3,163		
	1/4 hp.....	127,808	7,209	263,326	15,568
	1/3 hp.....	103,999	6,546	97,275	6,571
	1/2 hp.....	65,139	5,142	52,843	4,508
	3/4 hp.....	24,428	2,286	20,688	2,261
	1 hp.....	19,332	2,577	14,915	2,092
	1-1/2 hp.....	14,236	2,615		
	2 hp.....	12,554	3,217		
	3 hp.....	13,134	4,398	15,655	3,678
	5 hp. and over.....	3,165	1,815		
	Water-cooled, total.....	45,328	18,415	54,135	21,344
	Open-type, total.....	8,731	4,176	19,659	8,322
	1/3 hp. and under.....			243	29
	1/2 hp.....			1,509	200
	3/4 hp.....	995	160	2,041	332
	1 hp.....	871	152	2,092	408
	1-1/2 hp.....	649	181	2,411	599
	2 hp.....	1,161	349	2,527	703
	3 hp.....	1,640	559	2,803	990
	5 hp.....	1,494	730	2,497	1,252
	7-1/2 hp.....	661	438	817	570
	10 hp.....	469	479	987	938
	15 hp.....	496	610	964	1,209
	20 hp.....	295	518	678	1,093
	Hermetic-type, total.....	34,559	8,941	32,620	8,513
	1/2 hp. and under.....	5,011	513	3,404	372
	3/4 hp.....	3,155	366	4,133	550
	1 hp.....	6,475	1,081	4,623	709
	1-1/2 hp.....	4,070	893	3,746	852
	2 hp.....	5,522	1,431	5,675	1,577
	3 hp.....	5,974	2,082	5,880	1,938
	5 hp.....	2,958	1,452	4,125	1,915
	7-1/2 hp. and over.....	1,394	1,123	1,034	600
	Open and hermetic-type, total.....	2,038	5,298	⁵ 1,946	⁵ 4,509
	Over 20 but not over 25 hp.....	437	810	433	750
	30 hp.....	447	940	480	801
	40 hp.....	439	1,121	371	831
	50 hp.....	365	1,064	287	754
	60 hp.....	193	611		
	75 hp.....	90	379	375	1,373
	Over 75 hp.....	67	373		

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Refrigeration machinery—Continued				
	Condensing units—Continued				
	Condensing units (except for household refrigerators)—Continued				
	Ammonia refrigerants, total.....	30	50	121	232
	5 hp. and under.....	30	50	18	18
	7-1/2 - 20 hp.....			63	113
	20 hp. and over.....			40	101
3585612	Automatic merchandising machines, coin-operated (vending) refrigerated.....	xxx	61,443	xxx	44,237
35857--	Other refrigeration machinery and air-conditioning equipment, total.....	xxx	848,649	xxx	692,424
	Heat transfer equipment (evaporative condensers, unit coolers, air-conditioning units, ice-making machines, packaged liquid chillers, mechanical dehumidifiers, etc.):				
3585720	As reported in the Census of Manufactures.....	xxx	2,634,974	xxx	502,684
	As reported on Census Annual Form MA-35M.....	xxx	2,642,948	xxx	xxx
	Evaporative condensers, total.....	4,095	7,822	5,674	8,574
	10 tons and under.....	496	372	1,265	560
	10.1 to 15 tons.....	395	380	510	405
	15.1 to 20 tons.....	384	392	399	408
	20.1 to 30 tons.....	740	967	927	1,154
	30.1 to 50 tons.....	948	1,728	1,143	1,871
	50.1 to 100 tons.....	882	2,505	1,275	3,399
	Over 100 tons.....	250	1,498	155	777
	Air-conditioning units (not self-contained), total.....	193,986	42,324	107,697	23,859
	Suitable for location below a window, total.....	154,049	12,724	88,220	8,398
	Motor-driven-fan type.....	96,235	9,038	55,453	5,534
	Induced-air type.....	57,814	3,686	32,767	2,864
	All other, total.....	39,937	29,600	19,477	15,461
	2 tons and under.....	11,068	1,051	4,673	826
	3 tons.....	4,521	945		
	3.1 to 5 tons.....	4,809	1,861	2,370	1,009
	5.1 to 10 tons.....	3,740	2,330	3,113	1,850
	10.1 to 25 tons.....	8,286	8,660	5,157	5,023
	25.1 to 50 tons.....	4,859	7,931	3,280	4,715
	Over 50 tons.....	2,654	6,822	884	2,040
	Unit coolers (refrigeration), total.....	91,930	14,086	87,000	12,990
	Ceiling and wall mounted types, total.....	90,700	11,456	85,060	9,352
	1,000 BTU/hr. and under.....	10,549	386	3,396	119
	1,001 to 2,000 BTU/hr.....	2,067	875	27,800	1,099
	2,001 to 4,000 BTU/hr.....	14,151	849	14,985	1,420
	4,001 to 6,000 BTU/hr.....	9,000	918	12,591	1,108
	6,001 to 8,000 BTU/hr.....	8,359	1,028	7,195	1,105
	8,001 to 12,000 BTU/hr.....	14,086	2,511	8,094	1,487
	12,001 to 18,000 BTU/hr.....	5,760	1,155	6,340	1,544
	Over 18,000 BTU/hr.....	8,728	3,734	4,659	1,470
	Floor-mounted dry-type, total.....	941	1,771	1,232	1,979
	5 tons and under.....	278	279	155	120
	5.1 to 7.5 tons.....			325	460
	7.6 to 10 tons.....			169	239
	10.1 to 15 tons.....	180	330	265	394
	Over 15 tons.....	370	998	318	766
	Floor-mounted spray-type, total.....	289	859	708	1,659
	7.5 tons and under.....	28	37	52	58
	7.6 to 10 tons.....	261	822	498	1,219
	10.1 to 15 tons.....			158	382
	Over 15 tons.....				
	Other heat transfer equipment, total.....	xxx	57,501	xxx	67,900
	Shell-and-tube and shell-and-coil condensers.....	xxx	2,619	xxx	11,280
	Shell-and-tube liquid coolers.....	xxx	4,277	xxx	4,025
	Shell-and-coil liquid coolers.....			xxx	1,632
	Fin-coils (except forced-air units and bunker gravity type refrigeration coils), total.....			xxx	29,367
	Steam.....	xxx	7,563	xxx	4,836
	Water.....	xxx	6,126	xxx	7,934
	Direct expansion.....	xxx	15,790	xxx	16,597
	Plate-type evaporators (including bunker-gravity type refrigeration coils).....	xxx	7,143	xxx	6,958
	Surface dehumidifiers.....	xxx	1,642	xxx	4,832
	Air-cooled condensers, total.....	xxx	10,362	xxx	5,400

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Refrigeration machinery—Continued				
	Other refrigeration machinery and air-conditioning equipment—Continued				
	Heat transfer equipment—Continued				
	Other heat transfer equipment—Continued				
	Air-cooled condensers—Continued				
	Fin coils (condenser type).....	xxx	8,450		
	Remote type (refrigerants), total.....	4,302	1,912		
	5 tons and under.....	2,203	650		
	5.1 to 7.5 tons.....	878	397		
	7.6 to 10 tons.....	590	283	(NA)	(NA)
	10.1 to 15 tons.....	223	161		
	15.1 to 20 tons.....	199	148		
	20.1 tons and over.....	209	273		
	Tube-in-tube liquid coolers, tube-in-tube condensers and suction line heat exchangers.....	xxx	1,989	xxx	4,406
	Packaged air-conditioning equipment, total.....	xxx	431,685	xxx	342,236
	Room air-conditioners, total.....	1,673,295	257,466	1,352,304	241,744
	1/2 hp. and under.....	75,245	6,884	270,214	38,924
	3/4 hp.....	210,503	25,092	684,219	115,904
	1 hp.....	916,209	138,688	351,537	72,735
	1-1/2 hp.....	263,060	45,748		
	2 hp. and over.....	208,278	41,054	46,334	14,181
	Self-contained and residential air-conditioners, total.....	8230,541	174,219	8106,888	100,492
	Air-conditioners (except room), total.....	93,978	74,585		
	Self-contained (integral condenser type), total.....	85,638	67,621		
	18,000 to 32,999 BTU/hr.....	31,305	9,925		
	Horizontal.....	29,957	8,922		
	Other.....	1,348	1,003		
	33,000 to 53,999 BTU/hr.....	20,211	10,310		
	Horizontal.....	13,120	6,778		
	Other.....	7,091	3,532	(NA)	(NA)
	54,000 to 96,999 BTU/hr.....	18,755	16,641		
	Horizontal.....	1,732	1,648		
	Other.....	17,023	14,993		
	97,000 to 134,999 BTU/hr.....	6,906	9,346		
	135,000 to 184,999 BTU/hr.....	3,745	7,271		
	185,000 to 249,999 BTU/hr.....	2,325	5,188		
	250,000 to 319,999 BTU/hr.....	1,506	4,226		
	320,000 to 379,999 BTU/hr.....	524	2,275		
	380,000 BTU/hr and over.....	361	2,439		
	Remote condenser type.....	4,755	5,463	(NA)	(NA)
	Refrigeration chassis.....	3,585	1,501	18,189	9,843
	Year round air-conditioners (except heat pumps).....	11,973	12,622	15,932	16,652
	Heat pumps (except room air-conditioners), total.....	25,461	18,847	1,900	2,881
	Self-contained.....	13,372	9,001		
	Other than self-contained.....	12,089	9,846		
	Split systems, total.....	xxx	68,165		
	Air-conditioning condensing units only.....	99,129	55,240	(NA)	(NA)
	Air-conditioning evaporative coils, total.....	87,301	12,925		
	With blower.....	23,934	6,405		
	Without blower.....	63,367	6,520		
	Other air-conditioning and refrigeration equipment, total.....	xxx	89,530	xxx	47,125
	Absorption and adsorption systems.....	2,191	12,743	352	2,657
	Mobile vehicle refrigeration systems.....	7,525	15,911	(NA)	(NA)
	Ice making machines, total.....	31,118	17,913	(NA)	11,960
	Self-contained, total.....	30,646	16,878		
	Ice-cube makers, total.....	22,624	11,878		
	Automatic, 250 lbs. and under.....	15,542	6,594		
	Automatic, over 250 lbs. but not over 500 lbs.....	6,390	4,776	23,162	10,306
	All other.....	692	503		
	Flake or chip machines.....	8,022	5,005		
	Not self-contained.....	472	1,035	(NA)	1,651
	Packaged liquid-chillers, total.....	4,549	15,769	2,428	4,274
	10 hp. and under.....	1,681	1,688		
	15 to 30 hp.....	1,225	3,791		
	Over 30 hp.....	1,643	10,290	(NA)	(NA)
	Number of water chilling units.....	4,100	...		
	Number of other chilling units.....	449	...		

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

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Table 3.—QUANTITY AND VALUE OF REFRIGERATION MACHINERY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Refrigeration machinery—Continued				
	Other refrigeration machinery and air-conditioning equipment—Continued				
	Other air-conditioning and refrigeration equipment—Continued				
	Mechanical dehumidifiers, refrigerated type, self-contained.....	223,354	12,753	104,107	7,536
	Factory-assembled water-cooling towers, total.....	34,354	14,441		
	Mechanical-draft type, total.....	29,501	13,826		
	5 tons and under.....	4,371	610		
	5.1 to 20 tons.....	17,178	4,859	(NA)	20,698
	20.1 tons and over.....	7,952	8,357		
	Natural draft type.....	4,853	615		
3585793	Automobile air-conditioners, complete.....	427,109	39,914	(NA)	(NA)
3585794	Evaporative air coolers.....	711,667	39,004	(NA)	(NA)
3585796	Other refrigeration machinery and air-conditioning equipment....	xxx	31,144	xxx	14,352
3585798	Other components and accessories for air-conditioning and refrigeration equipment.....	xxx	88,277	xxx	161,036
3585700	Other refrigeration and air-conditioning equipment, not specified by kind.....	xxx	15,336	xxx	14,352
3585000	Refrigeration and air-conditioning equipment, not specified by kind.....	xxx	30,813	xxx	(NA)

NA Not available.

xxx Not applicable.

¹The total value of shipments of refrigeration machinery is omitted because of extensive duplication resulting from the use of products of certain establishments as materials by others within the same industry.

²For the products identified by *italics*, data for 1958 were also collected on annual Form MA-35M. In lieu of asking for detailed statistics on these products in the 1958 Census of Manufactures, respondents were asked to report only value of shipments for specified products or classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the Census of Manufactures for each product or class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the Census figures and the annual survey figures amounting generally to less than two percent at the industry level and not more than five percent at the class of product level. For some products or classes of products absolute differences between the Census figures and survey figures amounting to less than \$2 million were considered acceptable. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey whereas Census of Manufactures figures generally represent more exact shipments figures.
- Better coverage in the Census of Manufactures program. Coverage in the annual survey on Form MA-35M will be supplemented by adding respondents not currently in the survey but making the specified product according to their Census of Manufactures report.

³Excludes automotive air-conditioning compressors.

⁴Figures are included with those for "20 hp. and under hermetic-type compressors and compressor units" of corresponding sizes.

⁵Represents open-type only but figures are presumed to be comparable with open and hermetic-type classifications for 1958.

⁶No breakdown by horsepower is available for these units.

⁷Figures are included with "Hermetic-type centrifugal refrigeration systems" of corresponding sizes.

⁸Excludes evaporative coils.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC(P)-35G-1

INDUSTRIAL PATTERNS AND MOLDS INDUSTRY

(Industry Code 3594--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Industrial Patterns and Molds Industry shipped products valued at \$263 million, an increase of 36 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 11 percent from 1954 to 1958 to a total of 22.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$193 million in 1958, an increase of 27 percent over 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.-- GENERAL STATISTICS FOR THE INDUSTRIAL PATTERNS AND MOLDS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3594)

Item	Unit of Quantity	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	22.1	19.9	+11
Payroll.....	Million dollars...	135.3	98.3	+38
Production workers:				
Number.....	Thousands.....	19.0	16.9	+12
Man-hours.....	Millions.....	37.6	35.2	+7
Wages.....	Million dollars...	110.0	77.8	+41
Value added by manufacture, unadjusted ².....	.....do.....	192.4	152.0	+27
Value added by manufacture, adjusted ³.....	.....do.....	193.5	152.1	+27
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	69.4	44.7	+55
Value of shipments ⁵.....	.....do.....	262.9	197.4	+33
Capital expenditures, new.....	.....do.....	13.5	6.9	+96
Number of establishments with 20 or more employees ⁶	Number.....	246	223	+10

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10cents.
Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Industrial Patterns and Molds Industry includes establishments engaged primarily in the manufacture of industrial patterns and molds for use with industrial equipment such as plastic-working, rubber-working, glass-working, and foundry equipment. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Industrial Patterns and Molds Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Industrial Patterns and Molds Industry amounted to \$263 million. Of this total, \$241 million were products primary to the industry and \$22 million were products primary to other industries and receipts for miscellaneous activities.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$301 million of industrial patterns and molds were shipped by all producers of these products. Of this total, \$241 million, or 80 percent, were shipped by plants classified in Industry 3594, Industrial Patterns and Molds, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE INDUSTRIAL PATTERNS AND MOLDS INDUSTRY (S.I.C. CODE 3594), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
UNITED STATES, TOTAL...	22,149	135,270	19,033	37,583	110,005	192,428	193,454	262,935	13,508	246	19,864	152,049
New England.....	2,051	12,025	1,745	3,635	9,573	17,265	17,421	21,773	683	29	2,124	14,281
Massachusetts.....	1,361	7,999	1,156	2,417	6,246	11,140	11,292	14,076	367	21	1,373	9,098
Connecticut.....	520	3,188	438	944	2,616	4,802	4,818	5,997	253	5	556	4,109
Middle Atlantic.....	4,864	25,604	4,209	8,146	21,062	37,996	38,567	55,566	2,279	58	3,727	26,204
New York.....	1,394	7,529	1,178	2,345	6,122	10,946	11,165	15,931	410	15	1,154	8,139
New Jersey.....	1,649	8,847	1,441	2,902	7,332	13,118	13,373	18,131	597	23	1,280	9,636
Pennsylvania.....	1,821	9,228	1,590	2,899	7,608	13,932	14,029	21,504	1,272	20	1,292	8,429
East North Central.....	12,061	79,482	10,321	20,624	63,981	108,930	108,873	145,949	7,783	131	11,617	93,181
Ohio.....	3,535	21,229	3,053	6,027	17,054	30,458	30,047	39,042	1,416	42	3,967	30,888
Indiana.....	1,139	7,149	997	2,017	5,922	10,303	10,213	12,855	1,023	11	1,105	7,773
Illinois.....	3,241	22,019	2,756	5,700	17,908	28,487	28,417	41,838	4,293	29	2,058	16,372
Michigan.....	3,540	25,151	2,998	5,942	19,878	34,503	35,042	45,439	910	44	3,769	32,734
Wisconsin.....	606	3,934	517	938	3,219	5,179	5,154	6,375	141	5	715	5,411
West North Central.....	531	3,247	446	856	2,675	4,926	5,002	6,355	857	4	450	3,311
Missouri.....	314	1,930	250	507	1,510	2,767	2,823	3,732	784	3	196	1,445
South and West.....	2,642	14,912	2,312	4,322	12,714	23,311	23,591	33,692	1,906	24	1,944	15,070
California.....	1,701	10,546	1,490	2,929	8,995	15,277	15,395	22,795	1,554	14	1,281	10,536

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF INDUSTRIAL PATTERNS AND MOLDS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Industrial Patterns and Molds Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3594---	Industrial patterns and molds, total ¹	301,275	236,582
35941--	Industrial patterns, except shoe (of wood, metal, etc.), total.....	123,725	127,572
3594111	Foundry patterns.....	94,174	71,399
3594198	All other industrial patterns, except shoe.....	8,798	25,943
3594100	Industrial patterns, except shoe, not specified by kind.....	20,753	30,630
35942--	Industrial molds, total.....	159,783	98,633
	Industrial molds (metal), total.....	137,692	(NA)
3594213	For casting metals (foundry molds, except ingot molds).....	29,385	² 10,232
3594233	For molding rubber products, including tire molds.....	24,987	² 17,836
3594253	For molding plastics.....	59,309	² 42,055
3594259	Other metal industrial molds.....	24,011	² 13,673
3594263	Industrial molds (except metal).....	4,911	(NA)
3594200	Industrial molds, not specified by kind.....	17,180	14,837
3594000	Industrial patterns and molds, not specified by kind.....	17,767	10,377

NA Not available.

¹Excludes production of industrial patterns and molds made and used in the same establishment.

²Represents metal industrial molds and industrial molds made of materials other than metal.



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-35G-2

BALL AND ROLLER BEARINGS INDUSTRY

(Industry Code 3593—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Ball and Roller Bearings Industry shipped products valued at \$650 million, an increase of 20 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment of this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 46.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$408 million in 1958, an increase of 24 percent from 1954 when the previous Census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE BALL AND ROLLER BEARINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3593)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	46.4	49.7	-7
Payroll.....	Million dollars...	241.0	214.1	+13
Production workers:				
Number.....	Thousands.....	35.7	40.0	-11
Man-hours.....	Millions.....	67.3	78.2	-14
Wages.....	Million dollars...	169.0	159.8	+6
Value added by manufacture, unadjusted ².....	..do.....	417.7	335.1	+25
Value added by manufacture, adjusted.....	..do.....	407.5	329.4	+24
Cost of materials, fuel, electricity, and contract work ³.....	..do.....	231.3	207.6	+11
Value of shipments ⁴.....	..do.....	650.0	543.6	+20
Capital expenditures, new.....	..do.....	34.3	27.8	+23
Number of establishments with 20 or more employees.....	Number.....	80	81	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Ball and Roller Bearings Industry includes establishments engaged primarily in the manufacture of ball and roller bearings and parts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Ball and Roller Bearings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Ball and Roller Bearings Industry amounted to \$650 million. Of this total, \$623 million were products primary to the industry, and the remainder consisted of products primary to other industries, and receipts for miscellaneous activities.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped

by all producers. The latter figure, appearing in table 3, indicates that \$631 million of ball and roller bearings were shipped by all producers of these products. Of this total, \$623 million, or 99 percent, were shipped by plants classified in industry 3593 while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these report and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufacturing is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE BALL AND ROLLER BEARING INDUSTRY (S.I. 6. CODE 3593), BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see Text)

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	46,416	241,030	35,738	67,332	169,011	417,743	407,536	650,003	34,303	80	49,720	335,101
New England.....	15,460	75,676	12,218	23,582	55,157	134,153	129,767	180,319	9,068	19	15,594	97,974
Middle Atlantic.....	12,095	66,153	9,284	18,296	46,419	117,188	113,860	186,360	4,622	27	12,903	94,037
New York.....	3,949	20,681	3,201	6,413	14,881	35,144	33,861	53,467	1,437	9	3,816	29,106
New Jersey.....	3,204	18,679	2,475	4,795	13,397	30,442	29,769	49,916	1,681	6	3,962	28,904
Pennsylvania.....	4,942	26,793	3,608	7,088	18,141	51,602	50,230	82,977	1,504	12	5,124	36,026
North Central.....	18,432	97,216	13,908	24,708	66,156	164,646	162,235	276,435	18,795	26	20,947	141,757
Illinois.....	1,680	8,783	1,271	2,376	6,215	19,502	19,515	29,953	1,726	6	2,014	15,436
Michigan.....	3,796	21,626	3,234	6,399	17,244	37,956	37,289	57,324	3,363	5	4,089	34,016
South and West.....	429	1,985	328	746	1,279	1,756	1,674	6,889	1,818	8	275	1,331

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF BALL AND ROLLER BEARINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Ball and Roller Bearing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954*
3593---	Ball and roller bearings, total.....	¹ 631,008	533,796
35931--	Ball bearings (complete), total.....	289,290	213,694
	Annular, ground, or precision, including self-aligning, total.....	233,326	175,208
3593112	Single row conrad.....	173,472	(NA)
3593114	Single row maximum capacity type.....	19,685	
3593116	Double row.....	15,138	
3593118	Angular contact.....	16,841	
3593119	All other ground or precision bearings.....	8,190	
3593125	Annular, unground (including self-aligning).....	8,757	14,388
3593131	Thrust.....	13,305	
3593151	Other ball bearings.....	33,902	
35932--	Roller bearings (complete), total.....	269,326	249,947
3593211	Cylindrical (except thrust).....	52,999	41,755
3593223	Spherical (including hourglass and barrel, but excluding thrust), single row	25,515	22,172
3593225	and double row.....		
3593231	Taper (except thrust).....	161,144	156,407
3593241	Needle.....	19,109	14,440
3593251	Thrust (all types).....	7,780	8,135
3593298	Other roller bearings.....	2,779	7,038
35933--	Mounted bearings, total.....	29,122	24,393
3593311	Ball.....	² 14,792	² 13,869
3593351	Roller.....	³ 14,330	³ 10,524
35934--	Parts and components for ball and roller bearings, including balls and rollers, sold separately.....	41,205	45,146
3593411	Balls, sold separately.....	18,039	16,842
3593431	Rollers, sold separately.....	8,253	5,476
3593451	Other antifriction bearing components and parts (including unassembled bearings, cages, housing closure collars, races, etc.).....	14,913	22,828
3593000	Ball and roller bearings, not specified by kind.....	2,065	616

*Revised.

NA Not available.

¹Of this total, \$86 million represents value of shipments of ball and roller bearings transferred from one plant of a company to another plant of the same company.

²In 1958, represents 3,601 thousands units; for 1954 represents 3,233 thousand units.

³In 1958, represents 771 thousand units; for 1954 represents 522 thousand units.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-35G-3

FABRICATED PIPE AND FITTINGS INDUSTRY

(Industry Code 3592—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Fabricated Pipe and Fittings Industry shipped products valued at \$328 million, an increase of 31 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 19 percent from 1954 to 1958 to a total of 15.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$155 million in 1958, an increase of 26 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS IN THE FABRICATED PIPE AND FITTINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3592)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.1	12.7	+19
Payroll.....	Million dollars...	83.4	62.1	+34
Production workers:				
Number.....	Thousands.....	11.1	9.9	+12
Man-hours.....	Millions.....	22.2	19.4	+14
Wages.....	Million dollars...	55.0	43.9	+25
Value added by manufacture, unadjusted ².....	...do.....	146.3	123.0	+19
Value added by manufacture, adjusted ³.....	...do.....	154.9	122.4	+26
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	173.8	122.3	+42
Value of shipments ⁵.....	...do.....	328.4	249.9	+31
Capital expenditures, new.....	...do.....	4.1	4.8	-14
Number of establishments with 20 or more employees ⁶	Number.....	133	130	+1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Fabricated Pipe and Fittings Industry includes establishments engaged primarily in the manufacture of cutting, threading, bending, and otherwise fabricating pipe and pipe fittings from purchased pipe. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Fabricated Pipe and Fittings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Fabricated Pipe and Fittings Industry amounted to \$328 million. Of this total, \$244 million were products primary to the industry, \$27 million were products primary to other industries, and \$57 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$264 million of fabricated pipe and fittings were shipped by all producers of these products. Of this total, \$244 million, or 92 percent, were shipped by plants classified in Industry 3592, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE FABRICATED PIPE AND FITTINGS INDUSTRY (S.I.C. CODE 3592) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	15,114	83,425	11,072	22,242	55,014	146,301	154,862	328,412	4,060	133	12,670	123,028
New England.....	438	1,967	326	691	1,273	3,255	3,839	6,816	89	7	668	4,427
Connecticut.....	204	959	139	290	592	1,358	1,353	2,630	25	3	320	2,217
Middle Atlantic.....	4,781	27,380	3,244	6,365	16,261	57,327	63,069	120,860	1,040	35	4,121	49,505
New York.....	650	2,801	564	1,183	2,037	5,224	6,687	12,918	118	7	470	2,942
New Jersey.....	1,727	10,343	1,049	1,990	5,533	21,041	18,625	40,774	342	8	564	3,386
Pennsylvania.....	2,404	14,236	1,631	3,192	8,691	31,062	37,757	67,168	580	20	3,087	43,176
North Central.....	6,594	34,810	5,183	10,481	24,973	57,569	62,090	128,105	1,400	53	4,457	39,876
Ohio.....	3,582	19,021	2,941	5,805	14,576	37,090	39,977	70,051	646	17	2,110	21,307
Indiana.....	271	1,208	233	494	927	1,986	1,980	4,518	28	4	212	1,765
Illinois.....	618	3,135	470	1,045	2,008	4,305	5,020	13,090	122	10	615	3,933
Missouri.....	955	5,354	666	1,316	3,320	10,307	10,790	18,659	171	4	766	7,364
South and West.....	3,301	19,268	2,319	4,705	12,507	28,150	25,864	72,631	1,531	38	3,421	29,218
Texas.....	1,019	6,476	782	1,555	4,799	8,604	8,312	26,073	189	11	1,187	11,434

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF FABRICATED PIPE AND FITTINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Fabricated Pipe and Fittings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3592011	Fabricated Pipe and Fittings made from purchased pipe.....	264,264	214,133

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-35G-4

VALVES AND FITTINGS, EXCEPT PLUMBING, INDUSTRY

(Industry Code 3591—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Valves and Fittings, Except Plumbing, Industry shipped products valued at \$1,245 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a very slight change from 1954 to 1958 to a total of 75.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$719 million in 1958, an increase of 24 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE VALVES AND FITTINGS, EXCEPT PLUMBING, INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3591)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	75.3	75.0	-
Payroll.....	Million dollars...	402.2	333.2	+21
Production workers:				
Number.....	Thousands.....	54.8	58.4	-6
Man-hours.....	Millions.....	107.7	115.3	-7
Wages.....	Million dollars...	264.4	235.7	+12
Value added by manufacture, unadjusted ².....	..do.....	729.6	567.5	+29
Value added by manufacture, adjusted ³.....	..do.....	718.8	579.0	+24
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	507.0	416.1	+22
Value of shipments ⁵.....	..do.....	1,244.8	989.5	+26
Capital expenditures, new.....	..do.....	32.9	24.9	+32
Number of establishments with 20 or more employees ⁶	Number.....	339	314	+8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Valves and Fittings, Except Plumbing, Industry includes establishments engaged primarily in the manufacture of valves for controlling the flow of liquids or gases in pipes and mains; for machinery, including parts and fittings for such valves. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Valves and Fittings, Except Plumbing, Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Valves and Fittings, Except Plumbing, Industry amounted to \$1,245 million. Of this total, \$1,026 million were products primary to the industry, \$154 million were products primary to other industries, and \$65 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,168 million of valves and fittings, except plumbing, were shipped by all producers of these products. Of this total, \$1,026 million, or 88 percent, were shipped by plants classified in Industry 3591, Valves and Fittings, Except Plumbing, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE VALVES AND FITTINGS, EXCEPT PLUMBING, INDUSTRY (S.I.C. CODE 3591), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	75,345	402,167	54,773	107,667	264,438	729,578	718,810	1,244,837	32,941	339	75,016	567,518
New England.....	9,686	46,190	6,968	13,605	30,194	82,359	78,282	131,152	3,457	33	8,861	61,037
Massachusetts.....	5,258	25,696	3,806	7,437	16,718	44,081	43,343	67,948	1,966	17	5,418	37,845
Connecticut.....	3,089	13,751	2,158	4,085	9,025	25,795	22,307	39,739	1,009	8	1,925	13,070
Middle Atlantic.....	16,408	84,824	12,030	23,653	56,645	153,817	153,340	245,442	6,444	86	16,433	116,228
New York.....	3,289	16,473	2,566	5,158	11,651	29,876	30,347	46,657	899	22	3,198	23,293
New Jersey.....	3,244	18,104	2,072	4,123	9,908	32,094	31,722	50,380	2,012	23	2,316	16,984
Pennsylvania.....	9,875	50,247	7,392	14,372	35,086	91,847	91,271	148,405	3,533	41	10,919	75,950
East North Central.....	30,866	173,816	22,695	44,139	116,876	293,608	287,384	510,111	12,141	108	35,048	257,693
Ohio.....	6,016	31,550	4,348	8,958	20,816	62,524	61,028	104,857	2,172	33	7,470	63,759
Indiana.....	2,945	16,361	2,134	4,189	10,030	34,250	35,699	58,417	1,590	15	2,347	21,875
Illinois.....	15,434	89,508	11,373	21,138	60,609	143,882	137,518	237,374	6,085	30	17,501	118,365
Michigan.....	4,740	26,232	3,525	7,134	18,379	38,179	38,044	85,702	1,601	23	6,306	42,440
Wisconsin.....	1,751	10,165	1,515	2,720	7,042	14,773	15,095	25,761	695	7	1,423	11,253
West North Central.....	2,952	14,895	1,998	4,107	8,732	38,670	39,146	58,471	1,593	15	2,540	22,840
Iowa.....	1,644	8,459	1,114	2,323	4,998	21,913	21,635	33,570	711	5	1,568	15,318
Missouri.....	708	3,615	419	786	1,890	7,786	7,507	11,347	216	5	640	5,185
South Atlantic.....	1,524	6,756	1,270	2,587	5,102	12,770	13,203	21,571	446	10	714	5,510
East South Central.....	4,998	24,951	3,969	7,322	17,662	53,645	50,943	87,856	3,210	7	4,800	38,858
West South Central.....	3,955	20,878	2,458	5,012	11,176	42,439	44,631	90,233	3,013	32	2,349	20,978
Texas.....	3,034	16,077	1,843	3,711	8,144	32,604	34,813	75,113	2,501	23	1,549	14,345
Mountain.....	515	3,156	253	498	1,364	3,470	5,204	13,737	42	3	48	339
Pacific.....	4,461	26,721	3,132	6,746	16,687	48,800	46,677	86,264	2,595	45	4,218	44,032
California.....	4,340	26,003	3,042	6,560	16,255	47,147	45,160	83,826	2,570	42	4,123	42,949

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF VALVES AND FITTINGS, EXCEPT PLUMBING, SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Valves and Fittings, Except Plumbing, Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3591--	Valves and fittings (except plumbers' brass goods and fittings).....	.....	xxx	1,168,426	xxx	911,678
35911--	Metal valves and fittings for piping systems (except plumbing and heating valves).....	.....	xxx	923,254	xxx	724,730
	Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc. (except automatic regulating valves):					
3591111	Iron (all pressure) (including fire hydrants).....	Short tons.....	142,271	129,392	160,276	111,108
3591113	Steel (carbon and alloy) (all pressure).....	.....do.....	55,171	160,564	60,677	127,899
3591115	Brass and bronze (125 lb. W.S.P. and over).....	.....do.....	19,594	67,149	28,429	65,860
	Pop safety valves and relief valves (over 15 lb. W.S.P.):					
3591121	Iron.....	.....do.....	5,597	7,024	(NA)	5,359
3591123	Steel (carbon and alloy).....	.....do.....	8,433	25,826	2,290	7,365
3591125	Brass and bronze.....	.....do.....	3,598	14,057	1,216	4,235
	Automatic regulating valves:					
3591131	Diaphragm actuated.....	.....	xxx	69,794	xxx	38,954
3591133	Float actuated (including float cages).....	1,000 units.....	xxx	5,414	1,193	4,166
3591135	Other automatic regulating valves.....	.....	xxx	57,456	xxx	38,726
3591137	Compressed gas cylinder valves.....	1,000 units.....	xxx	8,864	2,362	4,432
	Metal fittings and unions (except compression fittings, flared fittings, and bell and spigot pressure and soil pipe fittings):					
3591141	Gray-iron fittings, flanges, and flange unions.....	Short tons.....	71,719	29,271	99,355	31,759
3591143	Malleable-iron fittings and flanges.....	.....do.....	61,976	44,076	80,565	51,150
3591145	Malleable-iron unions and union fittings.....	.....do.....	15,867	12,966	15,934	14,870
3591147	Cast and forged carbon and alloy steel fittings, flanges and unions.....	.....do.....	101,911	109,143	91,370	85,317
3591149	Cast and wrought, copper and copper-base alloy fittings, flanges, and unions.....	.....do.....	37,457	62,397	27,359	44,899
	Steam traps (over 15 lb. W.S.P.):					
3591151	Thermostatic and combination float and thermostatic.....	1,000 units.....	697	6,355	775	5,946
3591155	Mechanical.....	.....do.....	325	4,195	262	2,825
3591198	Other metal valves and piping specialties for piping systems (except plumbing and heating valves).....	.....	xxx	93,370	xxx	67,659
3591100	Metal valves and fittings for piping systems, not specified by kind.....	.....	xxx	15,941	xxx	12,201
35912--	Plumbing and heating valves and specialties, except plumbers' brass goods and fittings.....	.....	xxx	86,832	xxx	94,035
3591211	Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc., brass and bronze valves (under 125 lb. W.S.P.).....	Short tons.....	17,514	38,159	16,119	38,094
3591231	Pop safety valves and relief valves (15 lb. W.S.P. and under).....	.....do.....	261	1,798	627	2,001
3591251	Steam traps (15 lb. W.S.P. and under).....	.....	xxx	4,087	xxx	5,598
3591298	Other metal plumbing and heating valves and specialties.....	.....	xxx	39,664	xxx	47,416
3591200	Plumbing and heating valves and specialties, except plumbers' brass goods and fittings, not specified by kind.....	.....	xxx	3,124	xxx	926
3591311	Other metal valves and fittings, except plumbers' brass goods and fittings.....	.....	xxx	137,869	xxx	88,397
3591000	Valves and fittings, except plumbers' brass goods and fittings, not specified by kind.....	.....	xxx	20,471	xxx	4,516

NA Not available.

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

June 1960

MC(P)-36A-1

WIRING DEVICES AND SUPPLIES INDUSTRY

(Industry Code 3611--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Wiring Devices and Supplies Industry shipped products valued at \$836 million, an increase of 36 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 17 percent from 1954 to 1958 to a total of 50.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$472 million in 1958, an increase of 36 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE WIRING DEVICES AND SUPPLIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3611)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	50.5	43.2	+17
Payroll.....	Million dollars...	235.4	168.5	+40
Production workers:				
Number.....	Thousands.....	37.7	34.9	+8
Man-hours.....	Millions.....	74.1	68.9	+7
Wages.....	Million dollars...	154.6	122.2	+26
Value added by manufacture, unadjusted ².....	...do.....	475.7	340.9	+39
Value added by manufacture, adjusted ³.....	...do.....	471.9	347.1	+36
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	354.9	267.2	+33
Value of shipments ⁵.....	...do.....	836.1	614.2	+36
Capital expenditures, new.....	...do.....	18.7	12.3	+52
Number of establishments with 20 or more employees ⁶	Number.....	234	211	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Wiring Devices and Supplies Industry includes establishments engaged primarily in the manufacture of wiring devices (attachment plugs and caps, convenience and power outlets, lamp sockets and receptacles, fluorescent starters, and snap switches); wiring supplies (pole-line hardware, conductor connectors, overhead trolley-line materials, and rail bonds for both propulsion and signal circuits); electrical insulators and insulation materials, except porcelain and glass insulators; electrical conduits and fittings; electrical switches and outlet boxes and accessories; and lightning arresters. Establishments primarily engaged in manufacturing electric lighting fixtures are classified in Industry 3471, Lighting Fixtures; porcelain insulators in Industry 3264, Porcelain Electrical Supplies; glass insulators in Industry 3229, Pressed and Blown Glass, N.E.C.; knife and time switches in Industry 3616, Electrical Control Apparatus; switches designed for use in vehicles and aircraft in Industry 3641, Engine Electrical Equipment; and radio wave-band and similar radio switches in Industry 3661, Radio and Related Products. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Wiring Devices and Supplies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary to other industries), and miscellaneous receipts for contract work, resale

of products, etc. The total value of shipments and other receipts of establishments classified in the Wiring Devices and Supplies Industry amounted to \$836 million. Of this total, \$681 million were products primary to the industry, \$109 million were products primary to other industries, and \$46 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$785 million of wiring devices and supplies were shipped by all producers of these products. Of this total, \$681 million, or 87 percent, were shipped by plants classified in Industry 3611, Wiring Devices and Supplies, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE WIRING DEVICES AND SUPPLIES INDUSTRY (S.I.C. CODE 3611) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	50,466	235,395	37,686	74,146	154,597	475,684	471,864	836,085	18,715	234	43,195	340,911
New England.....	11,250	49,376	8,392	15,886	31,502	98,465	98,923	157,690	2,590	39	11,121	80,975
Rhode Island.....	1,650	5,990	1,393	2,571	4,324	13,001	13,283	25,202	107	5	1,970	13,238
Connecticut.....	7,034	32,970	5,018	9,357	20,512	65,865	65,731	101,059	1,848	17	7,353	56,369
Middle Atlantic.....	19,147	84,896	14,799	28,741	58,796	178,371	176,490	328,222	7,962	87	18,148	142,142
New York.....	9,676	39,609	7,658	14,565	27,835	76,292	75,145	128,875	3,146	41	8,804	61,513
New Jersey.....	3,317	15,108	2,468	5,108	10,297	29,445	29,322	53,251	1,314	14	3,251	22,205
Pennsylvania.....	6,154	30,179	4,673	9,068	20,664	72,634	72,023	146,096	3,502	32	6,092	58,423
East North Central.....	12,127	61,417	8,492	17,204	37,207	117,689	115,711	195,152	4,924	61	8,254	71,718
Ohio.....	2,468	13,239	1,709	3,426	7,530	24,700	24,533	38,855	810	14	1,856	17,650
Indiana.....	1,203	5,917	827	1,617	3,583	12,570	11,985	20,580	200	5	415	3,278
Illinois.....	7,821	39,649	5,474	11,318	24,433	75,546	74,056	127,048	3,749	37	5,172	44,028
Michigan.....	412	1,877	293	531	1,204	3,775	4,012	6,562	115	4	279	2,039
West North Central.....	1,686	8,284	1,161	2,188	4,547	14,537	14,450	27,752	652	10	1,084	9,835
Missouri.....	1,514	7,537	1,012	1,894	3,936	13,210	13,105	25,746	583	7	1,036	9,660
South.....	1,682	8,246	1,325	2,825	6,131	24,888	23,908	55,759	739	11	1,547	15,113
West.....	4,574	23,176	3,517	7,302	16,414	41,734	42,382	71,510	1,848	26	3,041	21,126
California.....	4,522	22,985	3,479	7,240	16,306	41,404	41,954	70,224	1,830	26	3,041	21,126

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF WIRING DEVICES AND SUPPLIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Wiring Devices and Supplies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total production			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3611----	Wiring devices and supplies.....		xxx	784,890	xxx	569,229
36111--	Current-carrying wiring devices.....		xxx	433,041	xxx	287,294
	Lampholders except automotive:					
	Incandescent:					
3611101	Brass or metal shell lampholders (excluding outlet box) all sizes.....	Thousand pounds...	47,751	6,672	xxx	9,897
3611102	Outlet box lampholders.....	Thousand units....	14,049	4,200	14,502	4,212
3611103	Other incandescent lampholders (including lumiline and weather proof).....	..do.....	151,205	10,728	140,538	11,413
3611105	Fluorescent (all types).....	..do.....	81,928	7,922	xxx	6,163
	Convenience and power outlets:					
3611111	Flush, 15 amperes and under (all types, designed for mounting in outlet boxes).....	Thousand units....	87,660	18,088	59,801	14,227
3611113	Flush, over 15 amperes (all types designed for mounting in outlet boxes).....	..do.....	14,976	3,344	10,704	5,033
3611117	Appliance and special application outlets (installed generally as a component part of an electrical appliance or piece of electrical equipment).....	..do.....	13,181	2,669	(¹)	(¹)
3611114 } 3611119 }	Surface raceway outlets, and all other (including pin and sleeve, and circuit-breaking types).....	..do.....	29,767	7,581	(NA)	3,874
3611121	Attachment plug caps, connector bodies and motor bases, adapters, and miscellaneous current taps.....		xxx	33,891	xxx	110,064

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF WIRING DEVICES AND SUPPLIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	Total production			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3611----	Wiring devices and supplies—Continued					
36111--	Current-carrying wiring devices—Continued					
3611123	Switches (except knife, time, solenoid, and automotive):					
	Appliance and special application switches (installed generally as a component part of an electrical appliance or piece of electrical equipment), except precision snap acting switch type.....	Thousand units....	71,022	42,855	71,194	32,416
	General purpose flush switches (designed for mounting in outlet boxes):					
3611125	15 amperes and under (except low voltage, remote control switches).....	..do.....	43,811	13,267	xxx	319,194
3611127	Over 15 amperes.....	..do.....	8,937	3,887		
3611128	Low voltage, remote control.....	..do.....	2,069	1,151		
3611136	Precision (1/8" gap or less) snap acting switches, excluding limit switches.....	..do.....	xxx	(2)		
3611139	All other (including surface, canopy, fixture, and portable lamp switches—except knife, time, solenoid, and automotive switches).....	..do.....	xxx	8,084	53,013	7,528
3611151	Fluorescent starters.....	..do.....	66,072	8,789		
	Switch and outlet wall plates:					
3611163	Metal.....	..do.....	23,802	3,525	xxx	6,033
3611165	Plastic.....	..do.....	52,726	4,045		
3611171	Lightning arresters and choke coils for power transmission and distribution circuits and for railway signalling power circuits.....		xxx	20,591	xxx	19,466
3611173	Rail bonds for both propulsion and signal circuits.....		xxx	3,623	xxx	1,407
3611175	Metal contacts precious and other.....		xxx	28,200	xxx	(*)
	Wire connectors:					
3611181	Solderless (including industrial and service).....	Thousand units....	6,007,562	60,774	(NA)	47,133
3611187	Other (including solder lugs and splicing sleeves).....	..do.....	176,074	57,000	(NA)	46,392
3611198	Other current-carrying wiring devices, including rosettes, etc.....		xxx	261,467	xxx	1,437,845
3611100	Current-carrying wiring devices, not specified by kind.....		xxx	20,688	xxx	4,997
36112--	Noncurrent-carrying wiring devices and supplies.....		xxx	254,905	xxx	208,871
	Stamped metal boxes, covers and accessories (including stamped conduit boxes):					
3611211	Switch and receptacle boxes.....	Thousand units....	87,113	16,198	72,148	11,468
3611213	Outlet boxes.....	..do.....	77,143	14,580	80,587	14,589
3611217	Covers and accessories (including supports and bar hangers).....		xxx	3,153	xxx	3,800
3611221	Cast metal boxes, covers, and accessories (including cast conduit boxes, but excluding fittings).....		xxx	20,984	xxx	31,005
3611223	Nonmetallic boxes and covers.....					
	Electrical conduit and conduit fittings (including underground and underfloor raceways and accessories):					
3611231	Rigid conduit (standard weight) including couplings, nipples, bends, and elbows.....	Short tons.....	(5)	(5)	215,260	52,987
3611232	Electrical metallic tubing (thin wall conduit) including couplings, nipples, bends, and elbows.....	..do.....	(5)	(5)	45,493	15,317
3611233	Flexible steel conduit.....	Thousand feet....	70,389	6,110	55,847	4,141
3611235	Raceways and raceway fittings (metal).....		xxx	21,315	xxx	13,245
3611236	Other electrical conduit (including underground conduit and fittings, molding angles, molding outlet, and molding junction boxes).....		xxx	5117,048	xxx	6,560
3611239	Fittings other than those listed above (including conduit and electric metallic tubing, connectors, service entrance caps and ells, insulating bushings, potheads, etc., and fittings for armored cable, nonmetallic wiring systems, and service cables).....		xxx	44,066	xxx	49,048
3611241	Overhead trolley line material (except poles, wire and cable, pole-line hardware, and expansion shells and plugs for roof bolting in mines).....		xxx	11,451	xxx	1,753
3611200	Noncurrent-carrying wiring devices and supplies, not specified by kind.....				xxx	4,958
36113--	Pole-line and transmission hardware.....		xxx	81,862	xxx	70,915
3611311	Pole-line hardware (except transmission hardware for high voltage porcelain products).....		xxx	69,241	xxx	57,330
3611351	Transmission hardware for high voltage porcelain products (including clamps, end fittings, strain yokes, etc.).....		xxx	11,366	xxx	13,585
3611300	Pole-line and transmission hardware, not specified by kind.....		xxx	1,255	xxx	(NA)
3611000	Wiring devices and supplies, not specified by kind.....		xxx	15,082	xxx	2,149

Na Not available.

xxx Not applicable.

¹For 1954, "Appliance and special application outlets" and "Motor bases, adapters and miscellaneous current taps" were included with "Other current-carrying wiring devices."

²For 1958, figures for product code 3611136 are included in code 3611198. A further product breakdown may be available in the final Industry Report.

³For 1954, no separate data were collected for product code 3611136. Accordingly, the totals for product class 36111 for 1958 and 1954 are not strictly comparable.

⁴For 1954, approximately 60 percent of the value of "Other current-carrying wiring devices" consists of precious metal and other electrical contacts.

⁵For 1958, figures for product codes 3611231 and 3611232 are included in code 3611236. A further breakdown may be available in the final Industry Report.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-36A-2

ELECTRICAL CONTROL APPARATUS INDUSTRY

(Industry Code 3616--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electrical Control Apparatus Industry shipped products valued at \$1,375 million, an increase of 22 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 1 percent from 1954 to 1958 to a total of 80.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$838 million in 1958, an increase of 22 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ELECTRICAL CONTROL APPARATUS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3616)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	80.1	79.3	+1
Payroll.....	Million dollars...	426.9	361.4	+18
Production workers:				
Number.....	Thousands.....	56.2	56.2	...
Man-hours.....	Millions.....	107.0	111.4	-4
Wages.....	Million dollars...	251.7	228.2	+10
Value added by manufacture, unadjusted ²	do.....	869.3	700.5	+24
Value added by manufacture, adjusted ³	do.....	837.6	687.3	+22
Cost of materials, fuel, electricity, and contract work ⁴	do.....	500.4	423.9	+18
Value of shipments ⁵	do.....	1,375.2	1,130.3	+22
Capital expenditures, new.....	do.....	25.4	31.5	-19
Number of establishments with 20 or more employees ⁶	Number.....	276	246	+12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Electrical Control Apparatus Industry includes establishments engaged primarily in the manufacture of switchgear, switchboard apparatus, and industrial electrical controls. Important products of this industry include power switches, circuit breakers, contractors, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies; and industrial controls such as motor starters and controllers, electromagnetic brakes, and electronic inspection and gauging apparatus and positioning controls. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Electrical Control Apparatus Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electrical Control Apparatus Industry amounted to \$1,375 million. Of this total, \$1,163 million were products primary to the industry, \$149 million were products primary

to other industries, and \$63 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was also 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,326 million of Electrical Control Apparatus were shipped by all producers of these products. Of this total, \$1,163 million, or 88 percent, were shipped by plants classified in Industry 3616, Electrical Control Apparatus, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE ELECTRICAL CONTROL APPARATUS INDUSTRY (S.I.C. CODE 3616) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	80,087	426,857	56,156	106,950	251,746	869,256	837,649	1,375,168	25,376	276	79,314	700,477
New England.....	6,673	32,827	4,285	8,558	17,752	59,031	56,528	102,189	3,451	29	7,117	48,559
Massachusetts.....	2,592	12,225	1,530	2,934	6,542	22,404	20,225	34,116	259	11	3,310	21,777
Connecticut.....	3,067	15,820	1,957	4,062	8,174	29,917	30,267	51,786	754	15	3,354	24,340
Middle Atlantic.....	24,284	134,391	18,509	31,258	82,833	301,814	274,932	466,574	7,510	65	30,194	308,222
New York.....	4,035	19,576	2,892	5,603	12,973	38,328	35,710	60,166	594	27	9,205	67,644
New Jersey.....	4,871	24,808	6,011	6,408	16,062	54,026	52,462	75,694	1,603	18	3,135	27,386
Pennsylvania.....	15,378	90,007	9,606	19,247	53,798	209,460	186,760	330,714	5,313	20	17,854	213,191
East North Central.....	32,253	176,637	21,884	43,535	103,999	332,925	328,014	496,905	8,573	90	30,475	256,667
Ohio.....	4,832	26,238	3,176	6,387	15,340	47,111	44,593	83,980	1,228	22	4,437	38,462
Illinois.....	8,518	43,283	5,949	11,903	24,332	87,662	86,902	134,812	1,452	37	8,703	66,290
Wisconsin.....	13,617	78,314	9,356	18,256	48,524	149,932	151,122	199,038	5,467	12	13,254	120,011
West North Central.....	4,044	17,605	3,284	6,853	12,312	38,472	37,867	60,687	632	16	3,595	25,915
Minnesota.....	806	3,508	673	1,375	2,640	6,025	6,008	9,841	276	8	592	3,500
Missouri.....	2,667	11,655	2,131	4,537	7,827	23,670	23,616	38,823	308	6	3,002	22,414
South Atlantic.....	5,290	25,597	2,995	6,087	11,487	55,928	56,471	93,721	1,737	15	1,831	10,680
Maryland.....	845	3,326	521	1,021	1,703	4,704	4,616	7,467	100	5	864	4,121
Georgia.....	1,274	6,120	853	1,714	3,234	10,206	11,333	26,133	484	6	859	6,133
East South Central.....	1,058	4,953	823	1,639	3,043	13,538	15,313	21,502	1,590	5	658	7,217
West South Central.....	1,027	5,142	668	1,336	2,831	10,335	10,343	22,486	144	11	745	5,725
West.....	5,458	29,705	3,708	7,684	17,489	57,213	58,181	111,104	1,739	45	4,696	37,488
California.....	4,907	26,411	3,343	6,908	15,638	49,498	50,113	94,141	1,572	36	4,247	34,059

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF ELECTRICAL CONTROL APPARATUS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Electrical Control Apparatus Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3616---	Electrical distribution and control apparatus.....	1,326,862	1,057,327
36161--	Switchgear and switchboard apparatus.....	854,119	696,677
	Panel boards and distribution boards (750 volts and under):		
	Panelboards (including enclosing cabinets):		
3616111	Fusible (including combination switch and fuse).....	16,301	20,280
3616112	Circuit breaker.....	35,751	25,168
	Distribution switchboards:		
3616115	Fusible.....	9,904	28,560
3616117	Circuit breaker.....	18,545	
3616119	Other (include theater switchboards).....	9,865	10,604
	Switches (except switches commonly known as snap, toggle, and rotary switches; and switch devices intended primarily to be used with electric motor controls):		
	Knife switches, 750 volts and under, open and enclosed:		
3616121	Open knife switches and parts and switch interiors.....	4,134	5,000
3616123	Enclosed safety switches (including pull out types).....	50,915	29,629
3616125	Enclosed fusible load centers, service entrance equipment, and branch circuit cut-outs.....	14,505	15,649
3616127	Time switches (repetitive with respect to fixed time of day).....	7,065	7,898
3616129	Other switches (excluding snap, toggle, push, etc., but include meter service equipment, other than meter mounting and test devices).....	19,611	12,019

See footnotes at end of table.

Table 3.—VALUE OF ELECTRICAL CONTROL APPARATUS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
	Electrical distribution and control apparatus—Continued		
	Circuit breakers:		
	Power circuit breakers:		
3616131	Indoor, including oil circuit breakers (all voltages) and oilless circuit breakers over 1,500 volts.....	6,445	17,745
3616141	Outdoor, oil and oilless:		
3616145	34,500 volts and under.....	21,063	22,099
3616152	Over 34,500 volts.....	54,148	50,908
	Open molded case circuit breakers assembled as complete units in supporting and enclosing housings of insulating materials, with or without accessories or attachments (800 ampere and under).....	50,559	28,177
3616156	Enclosed molded case circuit breakers (excluding panel boards and busway plugs, but including a group of such breakers in a single cabinet intended to function as service equipment (750 volts and under).....	40,447	21,129
3616147	Other circuit breakers including low voltage power circuit breakers (1,500 volts and under, interrupting capacity 10,000 ampere and over).....	28,388	17,433
3616159	Power switchboards, other switchgear, and busways:		
3616163	Automatic and manual panels (generator, transformer, feed control, etc.).....	32,739	32,107
3616165	Metal enclosed switchgear (using power circuit breakers, oil and oilless, and low voltage air-circuit breakers).....	137,243	141,438
3616167	Metal enclosed bus bar structures, over 750 volts (for sale separately).....	14,941	8,294
3616171	Relays (except instrument and circuit), regulators, and miscellaneous switchboard devices (for sale separately).....	47,589	(2)
	Power switching equipment (including attachments, auxiliaries, bus supports and fittings, and accessories, but excluding power fuses sold separately):		
3616173	Outdoor.....	37,518	41,019
3616175	Indoor.....	7,908	10,449
3617179	Power and distribution fuses and fuse links for 2,300 volts and over, a.c. service (excluding distribution cut-outs).....	8,994	4,908
3616181	Power connectors (excluding connectors used under National Electrical applications).....	(1)	7,997
3616183	Distribution cut-outs.....	18,132	15,500
3616187	Busways and trolley-type duct, including plug-in units and accessories (not excluding 750 volts consisting of enclosed sectionalized prefabricated bus bars rated 20 amperes or more and associated structures and fittings).....	23,620	21,248
	Relays, circuits:		
3616191	A.C. and D.C. magnetic control circuit relays, excluding overload relays.....	81,601	293,353
3616194	Overload relays.....	4,891	
3616198	Other switchgear and switchboard apparatus.....	33,443	8,066
3616100	Switchgear and switchboard apparatus not specified by kind.....	17,854	
36162--	Industrial electrical control equipment, except railway and motor vehicle controllers... General industry power circuit devices:	425,880	333,858
3616212	A.C. full voltage starters and contactors 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor starters.....	75,367	74,992
3616214	A.C. reduced voltage controls, 600 volts or less.....	12,528	314,391
3616216	Motor control centers, 600 volts or less.....	35,808	45,604
3616218	Starters and contactors for squirrel cage and wound rotor and synchronous motors, over 600 volts, air break and oil immersed.....	8,723	
3616219	D.C. general purpose controls.....	7,082	13,935
3616241	Resistance welding controls, electronic and magnetic.....	3,048	8,259
3616242	Pilot circuit devices including but without limitation, push buttons, limit switches interval timers, etc. (exclude relays).....	41,405	(4)
	Specific application controllers:		
3616243	Metal-mill, crane and hoist controls and accessories.....	(5)	23,644
3616245	Marine and Navy auxiliary controls and accessories.....	28,697	30,527
3616251	Electronic industrial controls, other than resistance welding controls, including automatic control equipment.....	39,971	14,551
3616271	Specific special purpose controllers, such as nonmetal mill and airconditioning, specially engineered control assemblies; and all other controllers not elsewhere classified, whether magnetic or static.....	28,569	(4)
3616275	Parts for industrial control equipment.....	38,301	4101,294
3616298	All other industrial control equipment (including brakes and controls for packaged industrial speed drives).....	585,722	
3616200	Industrial electrical control equipment, except railway and motor vehicle controllers not specified by kind.....	20,659	6,661
36163--	Fuses and fuse equipment, under 2,300 volts.....	31,811	26,792
	Fuses and fuse equipment under 2,300 volts (except power distribution cut-outs):		
3616311	Nonrenewable plug fuses.....	7,792	6,066
3616331	Nonrenewable cartridge fuses.....	9,274	8,033
3616351	Renewable plug and cartridge fuses (including renewal links).....	5,626	5,882
3616398	Other fuses and open fuse material (including cut-outs, clips, bases, etc.).....	8,015	6,811
3616300	Fuses and fuse equipment under 2,300 volts, not specified by kind.....	1,104	(NA)
3616000	Electrical distribution and control apparatus, not specified by kind.....	15,052	(NA)

NA Not available.

¹For 1958, "Power connectors" are included with code 3616198.²For 1954, circuit relays were included with "Relays (except instrument) regulators, and miscellaneous switchboard devices."³Not directly comparable to 1958. Description for 1954 reads "A. C. reduced voltage controls 5,000 volts or less."⁴Data for 1954 represents the sum of "General purpose control accessories (excluding rheostats and resistors)" totaling \$49,908,000 and "Other industrial controls" of \$51,386,000. For 1958, "General purpose control accessories (excluding rheostats and resistors)" was not listed as a separate product. Instead certain more specific product classifications were established and, accordingly, the 1954 and 1958 data for product code 3616298 and product class code 36162 are not strictly comparable. For example "Precision (1/8" gap or less) snap acting switches, excluding limit switches" (product code 361116) was established as a specific product for 1958. In 1954 this product was reported as "General purpose control accessories."⁵For 1958 "Metal-mill crane and hoist controls and accessories" are included with code 3616298.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36A-3

TRANSFORMERS INDUSTRY

(Industry Code 3615--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Transformers Industry shipped products valued at \$642 million, a decrease of 7 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 16 percent from 1954 to 1958 to a total of 34 thousand employees in 1958. Value added by manufacture in the industry amounted to \$368 million in 1958, a decrease of 7 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE TRANSFORMERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3615)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	34.5	41.0	-15.9
Payroll.....	Million dollars...	186.1	186.5	-.2
Production workers:				
Number.....	Thousands.....	22.5	29.2	-22.9
Man-hours.....	Millions.....	45.0	58.4	-22.9
Wages.....	Million dollars...	108.4	121.7	-10.9
Value added by manufacture, unadjusted ².....	.....do.....	388.3	410.2	-5.3
Value added by manufacture, adjusted ³.....	.....do.....	367.6	394.3	-6.8
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	252.8	277.8	-9.0
Value of shipments ⁵.....	.....do.....	641.9	688.4	-6.8
Capital expenditures, new.....	.....do.....	11.3	22.9	-50.7
Number of establishments with 20 or more employees ⁶	Number.....	81	89	-9.0

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Transformers Industry includes establishments engaged primarily in the manufacture of power, distribution, and specialty transformers. Important products of this industry are liquid filled and dry type power and distribution transformers; signalling; doorbell, and toy transformers; fluorescent lamp ballasts; lighting transformers; and power regulators, boosters, and reactors. Establishments primarily engaged in manufacturing radio-frequency or voice-frequency transformers, coils, or chokes are classified in Industry 3661, Radios and related Products; instrument, meter, and tripping transformers in Industry 3613, Electrical Measuring Instruments; and resistance welder transformers in Industry 3617, Electrical Welding Apparatus. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Transformers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Transformers Industry amounted to \$642 million. Of this total, \$583 million were products

primary to the industry, \$51 million were products primary to other industries, and \$8 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$626 million of Transformers and parts were shipped by all producers of these products. Of this total, \$583 million, or 93 percent, were shipped by plants classified in Industry 3615, Transformers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE TRANSFORMERS INDUSTRY (S.I.C. CODE 3615) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	34,546	186,093	122,529	45,034	108,408	388,271	367,560	641,883	11,258	81	40,956	410,245
Northeast.....	18,921	106,424	11,610	23,344	58,506	220,429	203,549	341,365	6,333	31	24,179	260,281
Connecticut.....	206	689	165	295	470	1,404	1,367	2,918	78	5	298	1,495
New York.....	836	3,610	597	1,139	2,201	5,650	5,512	10,756	164	6	995	4,182
Pennsylvania.....	9,941	57,762	6,239	12,514	33,564	131,118	117,950	197,881	3,742	8	12,195	153,071
North Central.....	11,759	60,234	8,069	15,830	37,583	112,944	109,271	207,677	3,289	31	12,227	101,670
Ohio.....	1,091	5,478	803	1,564	3,517	15,921	16,085	26,576	276	5	1,101	13,945
Illinois.....	4,409	19,796	3,260	6,296	12,524	37,308	36,674	74,627	1,103	13	4,326	27,539
Wisconsin.....	1,348	8,636	857	1,795	4,794	14,757	13,061	25,144	743	4	1,958	18,067
South.....	3,123	15,321	2,298	4,668	9,496	41,947	41,595	72,354	1,226	11	1,232	8,242
West.....	743	4,114	552	1,192	2,823	12,951	13,145	20,487	410	8	3,316	40,051

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF TRANSFORMERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Transformers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of quantity	Total production			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3615---	Transformers.....	.....	xxx	626,308	xxx	628,917
36151--	Specialty transformers.....	.....	xxx	131,291	xxx	109,554
	Natural draft dry type transformers, generally known as specialty transformers:					
3615111	Control, signalling, doorbell, and toy.....	1,000 units.....	870	3,182	2,382	5,649
3615121	Luminous tube (including series fluorescent lighting applications).....	..do.....	650	6,727	745	6,432
3615131	Ignition (including oil-and gas-furnace ignition application but excluding internal combustion engine ignition).....	..do.....	975	5,795	935	6,267
3615141	Fluorescent lamp ballasts (all types, including resistance, inductance and combinations of inductance and capacitance).....	..do.....	25,828	69,731	20,949	48,213
3615151	Lighting transformers (including street, airport, and mercury vapor lamp types).....	..do.....	279	13,996	305	10,281
3615198	General purpose and miscellaneous applications involving voltages of 600 volts and below.....	.....	xxx	27,268	xxx	29,541
3615100	Specialty transformers not specified by kind.....	.....	xxx	4,592	xxx	3,171
36152--	Power and distribution transformers, liquid filled (all voltages and dry type transformers above 600 volts for distribution and power service).....	.....	xxx	424,019	xxx	441,089
3615211	50 K V A and under 15,000 volts and below.....	Number of units..	552,130	163,408	579,585	135,559
3615212	51 K V A to and including 167 KVA, 1500 volts and below.....	..do.....	33,337	30,480	34,346	42,137
3615214	168 KVA to and including 500 KVA, 15,000 volts and below; and 500 KVA and under of voltages above 15,000.....	..do.....	7,281	23,580		
3615216	501 KVA-5,000 KVA (all voltages).....	..do.....	5,319	66,417	(NA)	97,996
3615217	5,001 KVA-14,000 KVA (all voltages).....	..do.....	661	28,491	(NA)	43,977
3615219	Over 10,000 KVA (all voltages).....	..do.....	677	108,279	(NA)	119,323
3615200	Power and distribution transformers, not specified by kind.....	.....	xxx	3,364	xxx	2,097
36153--	Transformer parts and supplies, power regulators, boosters, and reactors.....	.....	xxx	65,422	xxx	78,274
3615311	Transformers for other applications-liquid filled (all voltages) and dry type above 600 volts.....	.....	xxx	7,059	xxx	10,174
3615351	Feeder-voltage regulators and boosters.....	.....	xxx	18,298	xxx	24,247
3615331	Current limiting reactors and parts and accessories for power, distribution, and specialty transformers.....	.....	xxx	35,544	xxx	43,853
3615377						
3615300	Transformer parts and supplies, power regulators, boosters and reactors not specified by kind.....	.....	xxx	4,521	(NA)	(NA)
3615000	Transformers not specified by kind.....	.....	xxx	5,576	(NA)	(NA)

xxx Not applicable.
NA Not available.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

June 1960

MC(P)-36A-4

ELECTRIC WELDING APPARATUS INDUSTRY

(Industry Code 3617—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electric Welding Apparatus Industry shipped products valued at \$248 million, an increase of 38 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 21 percent from 1954 to 1958 to a total of 9.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$113 million in 1958, an increase of 46 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ELECTRIC WELDING APPARATUS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3617)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	9.9	8.2	+21
Payroll.....	Million dollars...	60.7	45.7	+33
Production workers:				
Number.....	Thousands.....	6.4	5.5	+16
Man-hours.....	Millions.....	12.8	11.4	+12
Wages.....	Million dollars...	33.0	26.4	+25
Value added by manufacture, unadjusted ².....	...do.....	109.8	78.6	+40
Value added by manufacture, adjusted ³.....	...do.....	112.9	77.5	+46
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	135.2	99.6	+36
Value of shipments ⁵.....	...do.....	248.3	179.9	+38
Capital expenditures, new.....	...do.....	4.3	4.7	-9
Number of establishments with 20 or more employees ⁶	Number.....	70	62	+13

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Electric Welding Apparatus Industry includes establishments engaged primarily in the manufacture of electric welding apparatus. Important products of this industry include arc welding machines, spot, projection, seam, flash and other resistance welders, welding electrodes, electrode holders and other welding machine accessories. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Electric Welding Apparatus Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary to other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electric Welding Apparatus Industry amounted to \$248 million. Of this total, \$215 million were products primary to the industry, \$16 million were products primary to other industries, and \$17 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$233 million of electric welding apparatus were shipped by all producers of these products. Of this total, \$215 million, or 92 percent, were shipped by plants classified in Industry 3617, Electric Welding Apparatus, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958-CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE ELECTRIC WELDING APPARATUS INDUSTRY (S.I.C. 3617) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	9,895	60,761	6,392	12,776	33,048	109,837	112,890	248,340	4,330	70	8,186	78,645
Northeast.....	1,521	8,166	856	1,669	3,881	18,870	18,726	44,322	829	17	1,200	8,952
New York.....	347	1,681	194	374	798	3,852	3,684	7,659	128	4	100	664
Pennsylvania.....	837	4,592	473	941	2,261	11,487	11,212	29,744	664	9	815	5,612
East North Central.....	6,506	43,377	4,212	8,566	23,870	75,333	77,134	161,627	2,468	37	5,685	59,714
Ohio.....	3,168	22,158	2,001	3,913	11,991	42,881	42,640	89,462	1,654	7	2,593	30,163
Michigan.....	1,742	11,380	1,239	2,636	6,936	17,861	18,313	33,551	267	20	1,763	18,319
Wisconsin.....	878	5,092	616	1,211	2,967	9,035	9,546	23,906	397	7	557	5,662
West North Central.....	529	2,739	331	647	1,333	4,353	4,698	10,935	537	6	433	3,276
South and West.....	1,339	6,479	993	1,894	3,964	11,281	12,332	31,456	496	10	866	6,703

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958-CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF ELECTRIC WELDING APPARATUS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
(Includes quantity and value of these products reported not only by establishments classified in the Electric Welding Apparatus Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3617---	Electrical Welding Apparatus, total.....	.....	xxx	233,235	xxx	160,025
36171--	Arc welding machines, components, and accessories except electrodes, total.....	.....	xxx	65,797	xxx	36,694
	Arc welding machines:					
	Alternating current transformer arc welders:					
3617111	180 amps, and below.....	Number.....	64,824	7,314	44,143	4,746
3617115	Over 180 amps.....	do.....	(NA)	4,739	9,401	4,056
	Direct current arc welders:					
	Generators only.....	do.....	(NA)	1,788	4,293	1,669
3617131	Rectifier types (including AC-DC).....	do.....	8,443	7,191	(1)	(1)
	Complete units only:					
3617133	Engine driven.....	do.....	23,125	19,751	12,744	9,782
3617135	Motor driven.....	do.....				
3617198	Accessories for arc welding machinery (including electrode holders, ground clamps, arc torches, automatic welding heads, semi-automatic welding guns, standard positioners, etc., excluding welding rods).....	.....	xxx	21,512	xxx	7,808
3617100	Arc welding machines, components, and accessories, except electrodes, not specified by kind.....	.....	xxx	3,502	xxx	13,467
36172--	Metal arc welding electrodes (cut lengths and coils), total.....	.....	xxx	116,438	xxx	72,255
	Cut lengths:					
3617221	Mild steel.....	Thousand pounds	390,963	58,556	363,082	42,271
3617223	Low alloy high strength steel except hard surfacing.....	do.....	28,559	6,442	24,530	5,654
3617225	Stainless steel (chromium 4% or more).....	do.....	13,794	16,573	12,187	11,264
3617231	Nonferrous except hard surfacing.....	do.....	3,264	6,275	2,720	3,200
3617241	Hard surfacing all types (including tool steel).....	do.....	15,509	12,399	9,034	5,738
3617253	Coils, and spools, all metals, for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding).....	do.....	67,066	11,475	22,069	4,128
3617200	Arc welding electrodes, not specified by kind.....	.....	xxx	4,718	xxx	...
36173--	Resistance welders, parts, components, accessories and electrodes, total.....	.....	xxx	47,760	xxx	51,076
3617311	Spot welders (including single electrode multi electrode and gun types).....	Number.....	4,887	10,834	13,699	18,935
3617321	Projection welders.....	do.....	332	2,622	631	2,802
3617331	Seam welders.....	do.....	450	3,727	221	3,592
3617341	Flash and butt welders.....	do.....	569	1,776	1,099	3,121
3617351	Other resistance welders.....	do.....	xxx	8,335	xxx	10,353
3617361	Resistance welder transformers (sold separately).....	do.....	4,521	1,039	7,848	2,529
3617371	Resistance welder electrodes.....	.....	2,824	5,293	xxx	8,043
3617381	Resistance welder accessories (including electrode holders, etc.).....	.....	xxx	9,176		
3617300	Resistance welders, parts, components, accessories and electrodes not specified by kind.....	.....	xxx	4,958	xxx	1,701
3617000	Electric Welding Apparatus, not specified by kind.....	.....	xxx	3,240	xxx	...

xxx Not applicable.

NA Not available.

¹Direct current arc welders, rectifier types" were included with "Arc welding machines, component, and accessories, except electrode, not specified by kind."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36A-5

CARBON AND GRAPHITE PRODUCTS INDUSTRY

(Industry Code 3612—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Carbon and Graphite Products Industry shipped products valued at \$155 million, an increase of 39 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 7 percent from 1954 to 1958 to a total of 8.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$103 million in 1958, an increase of 59 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS IN THE CARBON AND GRAPHITE PRODUCTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3612)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.9	8.3	+7
Payroll.....	Million dollars...	45.7	36.0	+27
Production workers:				
Number.....	Thousands.....	6.6	6.4	+3
Man-hours.....	Millions.....	13.0	12.6	+3
Wages.....	Million dollars...	30.6	24.2	+26
Value added by manufacture, unadjusted ².....	...do.....	96.0	62.9	+53
Value added by manufacture, adjusted ³.....	...do.....	102.8	64.6	+59
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	58.8	48.7	+21
Value of shipments ⁵.....	...do.....	155.0	111.7	+39
Capital expenditures, new.....	...do.....	11.1	6.5	+71
Number of establishments with 20 or more employees ⁶	Number.....	35	31	+13

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Carbon and Graphite Products Industry includes establishments engaged primarily in the manufacture of carbon and graphite products for use in the Electrical Industry. This industry comprises establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products for use in the electrical industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Carbon and Graphite Products Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Carbon and Graphite Products Industry amounted to \$155 million. Of this total, \$149 million were products primary to the industry, \$5 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry

shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$157 million of carbon and graphite products were shipped by all producers of these products. Of this total, \$149 million, or 95 percent, were shipped by plants classified in Industry 3612, Carbon and Graphite Products, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE CARBON AND GRAPHITE PRODUCTS INDUSTRY (S.I.C. CODE 3612) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	8,911	45,662	6,627	13,031	30,577	95,979	102,757	155,019	11,068	35	8,297	62,873
Northeast.....	4,751	24,427	3,440	6,771	15,359	41,938	44,055	70,177	5,063	16	4,264	32,371
New York.....	2,268	13,178	1,597	3,130	8,532	26,775	29,161	47,408	2,871	7	2,071	19,110
Pennsylvania.....	2,356	10,633	1,750	3,453	6,472	14,327	14,068	20,882	1,995	7	2,063	12,561
North Central, South and West.....	4,160	21,235	3,187	6,260	15,218	54,041	58,702	84,842	6,005	19	4,032	30,501
Ohio.....	1,733	9,034	1,251	2,411	5,864	18,064	19,008	31,229	(D)	9	1,960	15,205

D Withheld to avoid disclosing figures of individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF CARBON AND GRAPHITE PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only establishments classified in the Carbon and Graphite Products Industry but also by establishments making these items as "secondary" products in other industries. See Text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3612---	Carbon and graphite products.....	156,599	114,519
36120--	Brushes and brush plates (carbon-graphite, electro-graphite, graphite and metal graphite):		
3612011	Automotive brushes including replacement brushes (automotive and light truck type 6 to 12 volts, inclusive).....	7,804	5,720
3612013	Fractional horsepower brushes, including replacement brushes (brushes 1/4 square inch or less in cross section or 1-1/2 inch long or less).....	5,543	7,368
3612015	Industrial brushes (brushes over 1/4 square inch in cross section and over 1-1/2 inch long).....	15,139	11,368
3612017	Brush plates.....	2,239	(1)
	Electrodes and specialties (carbon, graphite, metal graphite, and metal-impregnated):		
3612053-55	Electrodes: For electric furnaces and electrolytic cell uses.....	75,343	46,037
3612081	Other electrodes and specialties: For electrical uses (including welding products-rods, plates, paste brazing and soldering tips; illuminating carbons; pile and rheostat resistance discs, plugs, plates and rods; contacts; power tube and rectifier parts and plates or rods, etc.).....	17,302	38,937
3612083	For mechanical uses (including bushings and bearings, packing rings for steam seal, dies, and extrusion guides, rubber vanes and other parts for guided missiles and rockets, etc.).....	6,725	
3612085	For all other uses (including nuclear, chemical, metallurgical, refractory, etc.)...	25,358	
3612000	Other carbon and graphite products, not specified by kind.....	1,146	15,089

¹Figures for "Brush plates" are included with those for "Other carbon and graphite products, not specified by kind."

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

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POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36A-6

ELECTRICAL MEASURING INSTRUMENTS INDUSTRY

(Industry Code 3613--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electrical Measuring Instruments Industry shipped products valued at \$643 million, an increase of 75 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 36 percent from 1954 to 1958 to a total of 44.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$384 million in 1958, an increase of 56 percent from 1954 when

the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ELECTRICAL MEASURING INSTRUMENTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3613)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	44.9	33.0	+36
Payroll.....	Million dollars...	243.0	145.1	+67
Production workers:				
Number.....	Thousands.....	30.6	24.2	+26
Man-hours.....	Millions.....	62.1	47.7	+30
Wages.....	Million dollars...	142.5	90.9	+57
Value added by manufacture, unadjusted ².....	..do.....	414.4	248.5	+67
Value added by manufacture, adjusted ³.....	..do.....	383.9	245.6	+56
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	223.5	114.1	+96
Value of products ⁵.....	..do.....	643.2	368.1	+75
Capital expenditures, new.....	..do.....	19.1	16.1	+19
Number of establishments with 20 or more employees ⁶	Number.....	195	143	+36

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of products." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Electrical Measuring Instruments Industry includes establishments engaged primarily in the manufacture of pocket, portable, panelboard, and graphic recording instruments for measuring electricity, such as volt meters, ammeters, watt meters, watt hour meters, demand meters, and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing meter transformers and analyzers for testing the electrical characteristics of internal-combustion engines, radio apparatus, etc. Establishments primarily engaged in manufacturing instruments for measuring and controlling mechanical forces (temperature, pressure, rotation, etc.) are classified in Industry 3821, Mechanical Measuring Instruments. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Electrical Measuring Instruments Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electrical Measuring Instrument Industry amounted to \$643 million. Of this total, \$470 million were products primary to the

industry, \$139 million were products primary to other industries, and \$34 million were receipts for miscellaneous activities. The industry shipments of primary products represented 77 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 75 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$596 million of electrical measuring instruments were shipped by all producers of these products. Of this total, \$470 million, or 79 percent, were shipped by plants classified in Industry 3613, Electrical Measuring Instruments, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ELECTRICAL INSTRUMENTS (S.I.C. CODE 3613) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	44,913	242,983	30,611	62,101	142,487	414,356	383,915	643,234	19,073	195	33,049	248,478
New England.....	7,927	43,216	4,818	9,565	21,549	78,983	78,861	117,107	2,130	19	8,726	72,704
Massachusetts.....	5,240	31,054	2,831	5,621	13,936	50,000	49,468	77,257	1,706	8	5,938	47,846
Middle Atlantic.....	9,882	50,081	6,883	13,678	28,916	74,184	71,351	123,074	2,715	76	11,974	86,072
New York.....	4,013	20,448	2,660	5,389	11,218	31,563	30,448	54,039	955	33	2,889	21,798
New Jersey.....	4,789	24,745	3,490	6,923	15,114	34,885	33,066	55,233	1,496	27	7,795	57,785
Pennsylvania.....	1,080	4,888	733	1,366	2,584	7,736	7,837	13,802	264	16	1,289	6,487
East North Central.....	10,653	57,130	7,624	15,455	36,130	89,688	65,557	140,707	2,546	33	7,762	56,421
Ohio.....	2,313	10,529	1,560	3,024	5,683	17,796	16,695	28,426	557	13	1,600	9,195
Illinois.....	4,655	25,861	3,100	6,167	14,837	39,720	19,124	61,013	1,082	10	4,711	33,194
West North Central.....	472	1,941	358	669	1,119	4,733	5,233	8,746	231	6	331	1,614
South.....	2,187	9,964	1,229	2,481	4,719	21,534	21,821	32,617	2,274	11	712	2,500
West.....	13,792	80,651	9,699	20,253	50,054	145,234	141,092	220,983	9,177	50	3,541	29,165
California.....	11,285	66,634	7,803	16,487	40,889	114,596	110,021	172,978	5,655	44	3,010	22,620

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF ELECTRICAL MEASURING INSTRUMENTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Electrical Measuring Instruments Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total production			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3613---	Electrical measuring instruments, total.....	xxx	596,312	xxx	347,154
36131--	Integrating instruments, electrical.....	xxx	88,809	xxx	73,091
	A.C. watt-hour meters:				
3613111	Single phase.....	2,620	41,051	2,880	36,937
3613115	Polyphase.....	174	8,094	167	6,492
3613133	Combined wat-hour and demand meters, single phase and polyphase and combined watt-hour and time switch meters.....	168	9,278	279	13,849
3613141	Demand meters (including KW and KVA).....	69	1,821		
3613151	Other electrical integrating meters including D.C. watt-hour meters, ampere-hour meters, and other miscellaneous integrating instruments not included in the above classifications.....	xxx	12,124	xxx	2,931
3613161	Parts for integrating meters, electrical type, (including meter mounting and test equipment) sold separately.....	xxx	14,593	xxx	12,883
3613100	Integrating instruments, electrical, not specified by kind.....	xxx	1,848	...	...
36132--	Equipment for testing electrical radio, and communication circuits and motors.....	xxx	340,658	xxx	190,023
3613212	Oscilloscopes designed primarily for electronic use.....	xxx	34,901	xxx	24,984
3613215	Other types of oscilloscopes and oscillographs.....	xxx	7,488		
3613222	Voltage, current, and power measuring instruments (including electronic) such as volt-ohm-milliammeters, vacuum tube voltmeters, etc.....	xxx	22,389	xxx	(¹)
3613239	Analyzers for testing characteristics of internal-combustion engines and auxiliary equipment.....	xxx	14,042	xxx	23,189
3613245	Tube characteristics measuring instruments.....	xxx	11,613	xxx	5,808
3613251	Micro-wave test equipment.....	xxx	30,253	xxx	8,488
3613257	Signal generators.....	xxx	31,605	xxx	15,157
3613268	Frequency measuring equipment.....	xxx	18,391	xxx	13,790
3613281	Parts for test equipment, sold separately.....	xxx	9,539	xxx	11,388
3613298	Other test equipment, including broadcast transmitter test equipment, resistor, capacitor, and inductor measuring equipment, etc. (including kits).....	xxx	138,792	xxx	181,541
3613200	Test equipment for testing electrical, radio, and communication circuits and motors, not specified by kind.....	xxx	21,643	xxx	5,678
36133--	Other electrical measuring instruments.....	xxx	150,052	xxx	84,040
	Electrical instruments which are designed fundamentally, to indicate, measure, or record electrical quantities, but whose scales may be marked in other than electrical quantities:				
	Indicating and recording instruments:				
	Indicating instruments:				
3613311	Panel type instruments, nominal size 4-1/2" and smaller. Initial accuracy within + 2% of full scale deflection for all types except rectifier types which shall be within + 5% (excluding instruments for use on motor vehicles and aircraft).....	2,378	22,869	2,038	19,013
3613319	Other panel type instruments, excluding those for use on motor vehicles, but including aircraft types.....	xxx	17,388	95	5,064
3613321	Switchboard type instruments 4-1/2" nominal size and larger with accuracy within + 1% of full scale.....	104	8,686	130	7,156
	Portable instruments:				
3613331	Industrial portable ammeters, volt-meters, watt-varmeters etc. (including hook-on and split core current measuring types).....	xxx	3,377	108	4,222
3613335	Laboratory portable instruments--with accuracies within + 1% up to 1/10% of full scale and better, all case sizes.....	xxx	4,904	33	3,461
3613345	Other indicating instruments, except motor vehicle, and test equipment.....	xxx	13,838	xxx	3,328
3613361	Recording instruments (portable and for panel mounting) not including control types.....	xxx	37,380	xxx	10,190
3613371	Parts for indicating and recording instruments.....	xxx	10,837	xxx	7,938
3613375	Instrument and meter transformers (current and potential).....	299	21,176	298	17,649
3613382	Tripping transformers.....				
3613384	5 KVA and under.....	1,588	3,469	2,503	1,589
3613385	Over 5 KVA.....				
3613385	Ammeters and voltmeters for motor vehicles.....	xxx	6,128	xxx	4,434
3613300	Other electrical measuring instruments, not specified by kind.....	xxx	16,793	...	...
3613000	Electrical measuring instruments, not specified by kind.....	xxx	16,793	...	...

xxx Not applicable.

¹For 1954, included in product code 3613298, "other test equipment."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-36A-7

MOTORS AND GENERATORS INDUSTRY

(Industry Code 3614--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Motors and Generators Industry shipped products valued at \$1,394 million, a decrease of 4 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 16 percent from 1954 to 1958 to a total of 93.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$810 million in 1958, an increase of 1 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE MOTORS AND GENERATORS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3614)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	93.8	112.0	-16
Payroll.....	Million dollars...	490.1	494.6	-1
Production workers:				
Number.....	Thousands.....	65.0	82.4	-21
Man-hours.....	Millions.....	128.5	161.3	-20
Wages.....	Million dollars...	304.5	334.3	-9
Value added by manufacture, unadjusted ².....	..do.....	845.9	844.1	...
Value added by manufacture, adjusted ³.....	..do.....	810.3	802.2	+1
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	546.3	597.3	-8
Value of shipments ⁵.....	..do.....	1,393.9	1,453.7	-4
Capital expenditures, new.....	..do.....	28.8	38.3	-25
Number of establishments with 20 or more employees ⁶	Number.....	236	217	+9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This Industry comprises establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor-generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline-electric and oil-electric busses and trucks, including storage-battery trucks.

Establishments primarily engaged in manufacturing turbo-generators are classified in Industry 3511, Steam Engines and Turbines; and starting motors and battery-charging generators for internal combustion engines in Industry 3641, Engine Electrical Equipment. Establishments primarily engaged in repairing and rewinding of motors are classified as nonmanufacturing. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Motors and Generators Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Motors and Generators Industry amounted to

\$1,394 million. Of this total, \$1,086 million were products primary to the industry, \$259 million were products primary to other industries, and \$49 million were receipts for miscellaneous activities. The industry shipments of primary products represented 81 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3B, indicates that \$1,291 million of motors and generators were shipped by all producers of these products. Of this total, \$1,086 million, or 84 percent, were shipped by plants classified in Industry 3614, Motors and Generators, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (tables 3A and 3B) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE MOTORS AND GENERATORS INDUSTRY (S. I. C. CODE 3614) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	93,808	490,145	64,996	128,512	304,535	845,948	810,242	1,393,851	28,756	236	112,003	844,128
New England.....	3,553	17,040	2,366	4,612	9,628	32,624	27,377	54,306	751	13	7,151	56,495
Connecticut.....	2,194	11,482	1,291	2,539	5,958	24,293	18,906	41,630	311	6	2,198	18,687
Middle Atlantic.....	30,374	167,221	19,442	39,493	97,346	297,464	290,790	506,969	9,969	58	36,120	297,834
New York.....	18,461	104,551	11,493	23,091	59,979	184,443	181,503	325,926	6,247	27	20,238	141,152
New Jersey.....	5,565	29,359	3,789	7,779	18,073	44,309	41,687	73,370	2,304	13	7,579	50,057
Pennsylvania.....	6,348	33,311	4,160	8,623	19,294	68,712	67,600	107,673	1,418	18	8,302	106,624
East North Central.....	43,807	226,783	31,447	61,332	146,188	382,771	361,003	612,649	11,751	102	53,466	386,507
Ohio.....	23,312	122,299	16,991	32,995	82,580	214,704	202,402	341,224	5,408	44	30,434	221,512
Indiana.....	7,356	39,094	5,146	10,004	24,073	71,303	68,928	107,759	1,591	13	9,295	71,527
Illinois.....	3,224	14,636	2,521	4,974	10,271	27,776	27,503	44,199	1,698	18	4,036	29,327
Michigan.....	2,606	11,365	1,999	3,797	7,304	17,304	17,225	30,163	737	11	2,490	15,406
Wisconsin.....	7,309	39,389	4,790	9,562	21,960	51,684	44,945	89,304	2,317	16	7,210	48,734
West North Central.....	8,963	46,320	6,711	12,965	30,745	69,907	70,104	118,563	2,261	19	9,815	64,235
Minnesota.....	2,129	12,530	1,485	3,154	7,701	22,451	21,946	35,397	539	6	2,011	16,751
Missouri.....	6,501	32,517	4,973	9,332	22,207	45,269	45,858	78,032	1,598	11	7,480	44,854
South.....	2,870	11,525	2,335	4,704	7,975	25,430	25,567	42,560	2,530	16	1,034	7,959
West.....	4,241	21,256	2,695	5,406	12,653	37,752	35,401	58,804	1,494	28	4,416	31,096

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3A.—VALUE OF MOTORS, GENERATORS, AND MOTOR-GENERATOR SETS, SHIPPED, TOTAL SHIPMENTS AND SHIPMENTS TO OTHER COMPANIES (COMMERCIAL SHIPMENTS), BY TYPE: 1958 AND 1954

(In thousands of dollars. Excludes motors, generators, and motor-generator sets produced and incorporated into other products made in the same establishment)

Product code	Product	Value of shipments (\$1,000)			
		1958		1954	
		Total shipments including interplant transfers	Shipments to other companies (commercial shipments)	Total shipments including interplant transfers	Shipments to other companies (commercial shipments)
3614--	Motors and generators.....	1,290,943	1,160,335	1,338,447	1,219,373
36141--	Fractional horsepower motors.....	431,961	365,226	436,458	370,110
361411	Aircraft (all types, except synchros, selsyns, and autosyns).....	34,041	(¹)	53,183	(¹)
361412	Clock-type synchronous and sub-synchronous timing motors; sub-fractional (under 1/100 hp.) used with synchro and servo devices; universal (other than listed above).....	56,527	(¹)	61,633	(²)
361417	D.C. motors (other than listed above).....	48,341	(³)	35,257	(³)
361418	Shaded pole A.C. motors.....	61,087	(¹)	49,833	(¹)
3614198	Other A.C. motors.....	222,439	190,314	233,724	194,666
3614100	Not specified by type.....	9,526	9,526	2,828	2,828
36142--	Integral horsepower, total.....	427,470	392,677	412,192	375,557
361421	Single phase, all sizes.....	25,566	(¹)	26,562	(¹)
361422	Polyphase--induction.....	223,373	213,014	217,502	194,973
361423	Synchronous and other A.C. motors.....	17,576	15,031	25,261	21,332
361424	D.C. motors and generators.....	76,556	(⁴)	48,639	(⁴)
361425	A.C. generators.....	65,260	58,682	92,787	89,220
3614298	Other and not specified by kind.....	19,139	19,139	1,441	1,441
36143--	Prime mover generator sets, other than steam or hydraulic turbine.....	73,846	(¹)	96,335	(¹)
3614311	Gasoline-engine driven generator sets.....	56,341	(¹)	51,739	(³)
3614331	Diesel-engine driven generator sets.....	15,425	15,425	27,283	27,283
3614375	Other, including wind-driven.....	1,762	(¹)	17,313	(¹)
36144--	Motor-generator sets and other rotating equipment.....	141,686	(⁵)	223,233	(¹)
3614411	Synchronous converters and double current generators.....	9,068	(¹)	5,322	(¹)
	Other motor generator sets:				
3614421	Fractional horsepower (less than 3/4 KW).....	6,744	(⁵)	13,015	(⁴)
361443	Integral horsepower.....	62,768	(⁴)	69,941	(⁴)
361445	Synchros, servos, rate generators, resolvers, combinations and synchro type components.....	36,885	(⁵)	64,545	(¹)
3614498	Other rotating equipment.....	622,322	(⁴)	670,410	(¹)
36145--	Motors, generators and control apparatus (and parts) for land transportation equipment.....	60,666	60,666	81,403	81,403
3614511	Railway motors, generators and control equipment.....	15,054	15,054	10,647	10,647
3614531	Motors, generators and control equipment for gasoline-electric and Diesel-electric buses, trucks, locomotives, rail cars and parts and supplies....	37,035	37,035	62,109	62,109
3614551	Motors and control equipment for storage-battery powered transportation equipment (for industrial trucks, mining locomotives and other transportation equipment) and parts and supplies.....	4,769	4,769	5,190	5,190
3614598	Other electrical apparatus for land transportation equipment.....	2,308	2,308	3,457	3,457
3614611	Parts and supplies for motors, generators and motor generator sets.....	129,903	113,284	88,826	82,831
3614000	Motors, generators and motor generator sets, not specified by kind.....	25,411	25,411	(NA)	(NA)

NA Not available.

¹Commercial shipments represent over 95 percent of the total value of shipments.²Commercial shipments represent between 60 and 80 percent of the total value of shipments.³Commercial shipments represent between 25 and 50 percent of the total value of shipments.⁴Commercial shipments represent between 80 and 90 percent of the total value of shipments.⁵Commercial shipments represent between 90 and 95 percent of the total value of shipments.⁶Not directly comparable. In 1954, an undetermined amount of gear motors were included in Code 3614498.

1958 CENSUS OF MANUFACTURES

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Table 3B.—QUANTITY AND VALUE OF MOTORS AND GENERATORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3614--	Motors and generators, total.....	xxx	1,290,928	xxx	1,338,447
36141	Fractional horsepower motors.....	xxx	431,961	xxx	436,458
361411	Aircraft (all types except synchros, selsyns and autosyns).....	xxx	34,041	xxx	53,183
3614112	A.C. types:				
3614113	Under 1/20 hp.....	350	15,259	2,452	228,430
3614113	1/20 hp and over but not including 1 hp.....	57	6,795	3,288	324,753
3614116	D.C. types:				
3614117	Under 1/20 hp.....	178	6,058	(2)	(2)
3614117	1/20 hp and over but not including 1 hp.....	52	5,929	(3)	(3)
3614121	Clock-type synchronous and sub-synchronous timing motors.....	5,984	8,292	8,818	10,876
3614123	Sub-fractional (under 1/100 hp) used with synchro and servo devices.....	57	2,552		
3614124	Universal (other than listed above):				
3614124	Below 1/100 hp (including toy motors).....	24	156	5,128	12,478
3614125	1/100 hp and over but not including 1/40 hp.....	712	4,376	1,496	10,652
3614126	1/40 hp and over but not including 1/20 hp.....	684	5,592	1,751	6,652
3614127	1/20 hp and over but not including 1/10 hp.....	2,412	10,684	3,677	20,975
3614128	1/10 hp and over but not including 1/6 hp.....	666	3,364		
3614129	1/6 hp and over but not including 1 hp.....	2,037	21,511		
3614171	D.C. motors (other than listed above):				
3614172	Below 1/100 hp (including toy motors).....	2,039	6,796	6,262	25,784
3614172	1/100 hp and over but not including 1/70 hp.....	58	623		
3614173	1/70 hp and over but not including 1/40 hp.....	201	889	1,211	6,246
3614174	1/40 hp and over but not including 1/20 hp.....	653	3,226		
3614175	1/20 hp and over but not including 1/10 hp.....	8,025	36,807	51	3,227
3614176	1/10 hp and over but not including 1/6 hp.....				
3614179	1/6 hp and over but not including 1 hp.....				
3614181	Shaded pole A.C. motors:				
3614182	Below 1/100 hp (including toy motors).....	7,587	20,363	2,735	8,349
3614182	1/100 hp and over but not including 1/70 hp.....	2,860	9,969	1,711	5,984
3614183	1/70 hp and over but not including 1/40 hp.....	2,222	6,777	1,679	7,080
3614184	1/40 hp and over but not including 1/20 hp.....	1,990	9,830	1,845	10,905
3614187	1/20 hp and over but not including 1/10 hp.....	1,485	9,853	2,094	17,515
3614189	1/10 hp and over but not including 1/6 hp.....	467	4,295		
3614191	Other A.C. motors:				
3614192	Below 1/100 hp (including toy motors).....	150	1,654	137	3,021
3614192	1/100 hp and over but not including 1/20 hp.....	1,258	6,038	256	4,009
3614193	1/20 hp and over but not including 1/10 hp.....	797	8,790	4,429	37,377
3614194	1/10 hp and over but not including 1/6 hp.....	1,722	17,705		
3614195	1/6 hp and over but not including 1/3 hp.....	5,082	55,387	5,317	61,478
3614196	1/3 hp and over but not including 1/2 hp.....	7,052	88,608	5,728	71,417
3614198	1/2 hp and over but not including 1 hp.....	1,854	44,257	2,578	56,432
3614100	Fractional horsepower motors, not specified by kind.....	xxx	9,526	xxx	2,828
36142--	Integral horsepower motors and generators, other than for land transportation equipment.....	xxx	427,455	xxx	412,192
3614211	Alternating current:				
3614211	Single phase, all sizes.....	628,346	25,551	703,671	26,562
3614221	Polyphase-induction:				
3614222	1 to 5 hp.....	641,076	57,981	652,116	60,405
3614222	5.1 to 20 hp.....	216,971	46,097	188,702	42,542
3614223	21 to 50 hp.....	44,755	26,719	48,469	22,995
3614226	51 to 125 hp.....	18,573	22,678	35,318	42,309
3614227	126 to 200 hp.....	7,094	19,719		
3614228	201 to 500 hp.....	2,727	15,584	3,208	14,002
3614229	Over 500 hp.....	2,159	34,595	2,494	35,249
3614236	Synchronous and other A.C. motors:				
3614237	1 to 50 hp.....	1,261	205	17,999	5,732
3614239	51 to 500 hp.....	607	4,910	1,669	7,129
3614239	Over 500 hp.....	497	12,461	521	12,400
3614241	D.C. motors and generators (excluding all arc welding generators, battery charging generators for internal combustion engines, and generators used as integral part of land transportation equipment):				
3614241	1 to 5 hp.....	15,218	6,833	19,854	4,426
3614242	5.1 to 20 hp.....	15,238	10,847	22,776	11,240
3614243	21 to 50 hp.....	4,156	8,189	5,932	5,692
3614244	51 to 200 hp.....	3,075	17,847	5,599	11,078
3614245	201 to 500 hp.....	1,134	12,273	209	4,929
3614249	Over 500 hp.....	170	20,567	205	11,274
3614252	A.C. generators (excluding all arc welding generators and generators used as integral part of land transportation equipment):				
3614252	Under 16 KW.....	24,956	10,332	31,208	13,952
3614255	16 to 150 KW.....	9,476	12,173		
3614256	151 to 400 KW.....	936	5,169	3,398	5,418
3614259	Over 400 KW.....	314	37,586	410	73,417
3614298	Other and not specified by type integral horsepower generators.....	xxx	19,139	xxx	1,441

See footnotes at end of table.

Table 3B.—QUANTITY AND VALUE OF MOTORS AND GENERATORS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
	Motors and generators—Continued				
36143--	Prime mover generator sets other than steam or hydraulic turbine.....	xxx	73,846	xxx	96,335
	Generator set units except steam, gas and water turbine sets:				
3614311	Gasoline-engine driven generator sets.....	53,449	56,541	79,149	51,739
3614331	Diesel-engine driven generator sets.....	2,264	15,425	6,154	27,283
3614375	Other generator set units, including wind-driven (except steam, gas and water turbine sets and motor-generator sets).....	xxx	1,762	xxx	17,313
36144--	Motor-generator sets and other rotating equipment.....	xxx	141,686	xxx	223,233
	Motor-generator sets (including dyncmotors, converters, inverters, and frequency chargers):				
3614411	Synchronous converters and double current generators.....	35,805	9,068	10,099	5,322
	Other motor generator sets:				
3614421	Fractional horsepower (less than 3/4 KW).....	43,258	6,744	135,682	13,015
	Integral horsepower:				
3614431	3/4 to 150 KW.....	19,483	62,768	45,588	55,544
3614433	151 to 400 KW.....			207	3,977
3614435	Over 400 KW.....			219	10,420
	Other rotating equipment:				
3614453	Synchros, servos, rate generators, resolvers and combinations.....	xxx	34,694	xxx	64,545
3614457	Synchro type components.....	xxx	2,191		
3614498	All other rotating equipment.....	xxx	22,322		
36145--	Motors, generators and control apparatus (and parts) for land transportation equipment.....	xxx	60,666	xxx	81,403
3614511	Railway motors, generators, and control equipment (for trolley cars, trolley coaches, rapid transit cars, trolley locomotives, third rail locomotives, multiple unit cars for railway service and mining locomotives) and parts and supplies.....	xxx	(5)	xxx	10,647
3614531	Motors, generators, and control equipment for gasoline-electric and diesel-electric buses, trucks, locomotives, rail cars, and parts and supplies.....	xxx	37,035	xxx	62,109
3614551	Motors and control equipment for storage-battery powered transportation equipment (for industrial trucks, mining locomotives, and other transportation equipment) and parts and supplies.....	xxx	4,769	xxx	5,190
3614598	Other electrical apparatus for land transportation equipment.....	xxx	517,362	xxx	3,457
3614611	Parts and supplies for motors, generators, and motor-generator sets, except for land transportation equipment (not including motors for built-in jobs, that are included in the appropriate motor classification above).....	xxx	129,903	xxx	88,826
3614000	Motors and generators, not specified by kind.....	xxx	25,411	xxx	(NA)

NA Not available.

xxx Not applicable.

¹Separate breakdown for 1954 not available.²D.C. under 1/20 hp included with A.C. under 1/20 hp in 1954.³D.C. over 1/20 hp included with A.C. over 1/20 hp in 1954.⁴Not directly comparable to 1958. Gear motors in 1954 were included with Code 3614498.⁵In 1958, "Railway motors, generators, and control equipment," were included under Code 3614598, "Other electrical apparatus for land transportation equipment."

Table 3C.—QUANTITY OF MOTORS AND GENERATORS—SHIPMENTS INCLUDE INTERPLANT TRANSFERS, BY TYPE AND SIZE: 1958 AND 1954

(Excludes motors and generators produced for incorporation into other products made in same establishment)

Product	Unit of measure	Quantity of shipments including interplant transfers	
		1958	1954
Fractional horsepower motors and generators.....	Thousand units..	58,715	57,614
Below 1/20 hp.....	do.....	21,024	23,425
1/20 hp and over, but not including 1 hp.....	do.....	31,707	25,372
Clock-type synchronous and sub-synchronous timing motors.....	do.....	5,984	8,817
Integral horsepower motors and generators.....	Units.....	1,638,739	1,743,816
A.C. single phase (all sizes).....	do.....	628,346	703,671
A.C. polyphase-induction:			
1 to 5 hp.....	do.....	641,076	652,116
5.1 to 20 hp.....	do.....	216,971	188,702
21 to 50 hp.....	do.....	44,755	48,469
Over 50 hp.....	do.....	30,553	41,092
Synchronous and other A.C. motors (all sizes).....	do.....	2,365	20,189
D.C. motors and generators (all sizes).....	do.....	38,991	54,575
A.C. generators (all sizes).....	do.....	35,682	35,002

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-36B-1

ELECTRIC LAMPS (BULBS) INDUSTRY

(Industry Code 3651--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electric Lamps (Bulbs) Industry shipped products valued at \$418 million, an increase of 26.3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 2.3 percent from 1954 to 1958 to a total of 21 thousand employees in 1958. Value added by manufacture in the industry amounted to \$271 million in 1958, an increase of 25.3 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ELECTRIC LAMPS (BULBS) INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3651)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.5	22.0	-2.3
Payroll.....	Million dollars...	95.5	78.9	+21.0
Production workers:				
Number.....	Thousands.....	18.3	19.2	-4.7
Man-hours.....	Millions.....	35.2	36.8	-4.4
Wages.....	Million dollars...	73.7	63.2	+16.6
Value added by manufacture, unadjusted ².....	..do.....	280.2	218.1	+28.5
Value added by manufacture, adjusted ³.....	..do.....	270.8	216.2	+25.3
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	136.3	111.5	+22.2
Value of shipments ⁵.....	..do.....	418.0	330.9	+26.3
Capital expenditures, new.....	..do.....	8.3	8.3	...
Number of establishments with 20 or more employees ⁶	Number.....	52	53	-1.9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Electric Lamps (Bulbs) Industry includes establishments engaged primarily in the manufacture of electric bulbs, tubes and related light sources. Establishments primarily engaged in manufacturing electrotherapeutic lamp units for ultraviolet and infrared radiation are classified in Industry 3693, X-ray and Therapeutic Apparatus; electric lighting fixtures in Industry 3471, Lighting Fixtures; glass blanks for bulbs in Industry 3229, Pressed and Blown Glass, N.E.C.; and electric lamp bases and other electric lamp components (except glass blanks) in Industry 3699, Electrical Products, N.E.C. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Electric Lamps (Bulbs) Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electric Lamps (Bulbs) Industry amounted to \$418 million. Of this total, \$384 million were products primary to the industry, \$25 million were products primary to other industries, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary

products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 94 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$397 million of Electric Lamps (Bulbs) were shipped by all producers of these products. Of this total, \$385 million, or 97 percent, were shipped by plants classified in Industry 3651, Electric Lamps (Bulbs) while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these report and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURE

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Table 2.—GENERAL STATISTICS FOR THE ELECTRIC LAMPS (BULBS) (S.I.C. CODE 3651) BY REGIONS AND STATES: 1958 AND 1954

(For explanation of column captions see text)

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
						(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
United States, total.....	21,534	95,459	18,266	35,206	73,746	280,249	270,831	418,028	8,288	52	21,963	218,137
Middle Atlantic.....	8,267	38,630	6,625	13,074	27,236	84,336	81,850	123,996	3,511	21	8,666	61,102
New York.....	439	1,712	387	811	1,372	2,808	2,774	6,052	92	3	322	1,508
New Jersey.....	6,150	30,039	4,789	9,507	20,451	55,820	55,318	81,217	2,363	11	6,661	42,862
Pennsylvania.....	1,678	6,879	1,449	2,756	5,413	25,708	23,758	36,727	1,056	7	1,683	16,731
All other divisions....	13,267	56,829	11,641	22,132	46,510	195,913	188,931	294,032	4,777	31	13,297	157,035
Kentucky.....	1,176	4,479	929	1,820	3,177	13,286	13,551	23,694	302	4	1,153	7,942

¹Each producing State not shown separately in the above table was omitted either (a) to avoid disclosing figures for a division or county, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. Additional publication detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF ELECTRIC LAMPS (BULBS) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Electric Lamps Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	1958			1954		
		Total production (1000 bulbs)	Total shipments including interplant transfers		Total production (1000 bulbs)	Total shipments including interplant transfers	
			Quantity (1000 bulbs)	Value (\$1,000)		Quantity (1000 bulbs)	Value (\$1,000)
3651--	ELECTRIC LAMPS (BULBS).....	xxx	xxx	397,513	xxx	xxx	309,650
3651010	Electric lamps (bulbs), except cold cathode fluorescent, as reported in the Census of Manufactures.....	xxx	xxx	394,302	xxx	xxx	306,601
	Electric lamps (bulbs), except cold cathode fluorescent, as reported on Census Quarterly Form M36B.....	2,321,063	2,392,320	395,577	xxx	xxx	302,055
	Large incandescent:						
3651011	General lighting, 100-130 volts 150 watt and below.....	765,538	777,200	79,499	693,753	737,046	66,856
3651012	General lighting above 100-130 volts 150 watt.....	57,458	61,641	16,911	62,484	63,356	17,622
3651013	3 light, 100-130 volts.....	23,080	27,323	7,758	20,297	20,713	5,346
3651014	Reflector, 100-130 volts.....	21,181	20,983	19,233	14,426	15,295	12,112
3651015	Infrared (all types), 100-130 volts.....	3,400	3,687	2,477	3,732	3,921	3,157
3651016	Traffic and street lighting 100-130 volts.....	13,141	12,359	4,538	213,134	211,937	24,834
3651017	Rough and vibration service.....	31,197	26,722	5,778	152,037	159,491	26,758
3651018	All other large incandescent (special purpose) ¹	136,680	155,204	29,573			
	Photographic incandescent ³						
	Photoflash, total.....	574,920	572,768	37,438	550,408	464,207	31,403
3651021	Screw base (including blue).....	8,965	10,879	1,091			
3651022	Midjet (including blue).....	401,132	399,418	27,156			
3651023	Miniature (including blue).....	164,823	162,470	9,191			
3651024	Projection.....	4,139	4,885	8,102	3,831	3,164	4,845
3651025	Photoflood, photo-enlarger and other photolamps.....	6,470	6,964	3,749	4,007	3,490	1,746
	Miniature incandescent						
	Automobile glass and metal sealed beams:						
3651031	Under 6 inches.....	28,161	27,467	17,085	431,838	433,278	44,568
3651032	6 inches and over.....	24,889	26,728	19,108			
3651033	Automobile miniature other than glass and sealed beams....	226,824	236,138	17,755	217,539	229,769	14,519
3651034	Flashlight.....	51,430	62,544	3,360	65,300	80,202	3,820
3651035	Radio panel.....	27,782	29,187	1,282	23,863	25,765	1,091
3651039	All other miniature ⁵	32,751	33,646	6,028	27,972	26,632	4,326
	Electrical discharge (except Christmas tree):						
3651041	Germicidal, sterile, bacterial and ozone.....	833	1,144	981	6534	6606	6936
3651042	Sun Lamps (bulbs only).....	566	497	2,423	497	365	1,708
	Fluorescent, hot cathode:						
3651043	Slimline.....	21,690	21,927	30,479	93,010	91,036	65,440
3651044	Other fluorescent lamps (except slimline).....	90,829	92,842	58,195			
	Miscellaneous electrical discharge						
3651051	Glow.....	28,079	28,798	2,753	19,993	16,580	1,421
3651052	Mercury.....	800	853	8,823	566	527	4,464
3651053	Sodium, photochemical, and other miscellaneous electrical discharge.....	53	56	2,030	61,283	61,478	62,710
3651055	Christmas tree lamps (all types).....	149,172	160,760	10,216	245,897	242,485	12,377
3651063	Cold cathode fluorescent lamps for illumination and decoration including custom built lamps, but excluding sign applications..	xxx	xxx	3,211	xxx	xxx	3,049

xxx Not applicable.

¹Includes lamps for special services such as sign and display lighting; aviation; street railway; spot and flood lighting; train and country home lighting; traffic signal; show cases; other items for special application and large incandescent lamps under 15 watts and/or other than 100-130 volts.²For 1954, "traffic and street lighting" includes some lamps other than 100-130 volts.³The total shipments of photoflash lamps for 1958 include 85.7 million blue photoflash lamps, valued at \$7,011 thousand. Similar data are not available for 1954.⁴For 1954, separate figures are not available by size of lamp.⁵Includes lamps for use in toys, pin games, surgical, medicinal and dental instruments, and for special applications.⁶For 1954, figures not directly comparable to 1958; ozone lamps were included with Sodium Photochemical, and other miscellaneous electrical discharge lamps in 1954.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

June 1960

MC(P)-36B-2

ELECTRICAL APPLIANCES INDUSTRY

(Industry Code 3621--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electrical Appliances Industry shipped products valued at \$790 million, a decrease of 4 percent from 1954, according to preliminary results obtained from the 1958 Census of manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 18 percent from 1954 to 1958 to a total of 39.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$425 million in 1958, a slight decrease from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ELECTRICAL APPLIANCES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3621)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	39.7	48.6	-18
Payroll.....	Million dollars...	186.9	201.8	-7
Production workers:				
Number.....	Thousands.....	30.0	38.7	-22
Man-hours.....	Millions.....	58.5	75.6	-23
Wages.....	Million dollars...	120.4	145.6	-17
Value added by manufacture, unadjusted ².....	..do.....	428.3	424.0	+1
Value added by manufacture, adjusted ³.....	..do.....	424.8	426.2	...
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	352.7	392.2	-10
Value of shipments ⁵.....	..do.....	789.7	822.2	-4
Capital expenditures, new.....	..do.....	12.5	20.8	-40
Number of establishments with 20 or more employees ⁶	Number.....	162	139	+16

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Electrical Appliances Industry includes establishments engaged primarily in the manufacture of household and commercial electrical appliances used for heating, cooking, and other purposes such as: ranges, disk stoves, hot plates, cookers, casseroles, roasters, toasters, water heaters, irons, mixers, percolators, circulating fans, air space heaters, soldering irons, dry shavers, bed coverings, heating pads, and commercial steam tables.

Establishments primarily engaged in manufacturing domestic laundry machines are classified in Industry 3581, Domestic Laundry Equipment; commercial laundry, dry-cleaning, and pressing machines in Industry 3582, Laundry and Dry-cleaning Equipment; sewing machines in Industry 3583, Sewing Machines; vacuum cleaners in Industry 3584, Vacuum Cleaners; mechanical and absorption refrigerators in Industry 3585, Refrigeration Machinery; industrial type fans in Industry 3564, Blowers and Fans; and industrial immersion heaters, in Industry 3619, Electrical Industrial Apparatus, N.E.C. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Electrical Appliances Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electrical Appliances Industry amounted to \$790 million. Of this total, \$621 million were products primary to the industry, \$119 million were products primary to other industries, and

\$50 million were receipts for miscellaneous activities. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 76 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$852 million of electrical appliances were shipped by all producers of these products. Of this total, \$621 million, or 73 percent, were shipped by plants classified in Industry 3621, Electrical Appliances, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ELECTRICAL APPLIANCES INDUSTRY (S.I.C. CODE 3621) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	39,686	186,867	30,030	58,451	120,409	428,324	424,771	789,658	12,514	162	48,582	424,031
New England.....	4,708	20,259	3,445	6,571	13,104	62,871	58,350	101,289	2,103	13	8,083	64,878
Connecticut.....	4,160	18,581	2,969	5,717	11,853	59,726	55,109	94,774	1,730	10	7,755	62,936
Middle Atlantic.....	7,773	35,866	5,885	11,465	23,330	79,821	79,083	148,253	2,120	47	7,166	59,988
New York.....	3,814	15,167	2,998	5,865	10,228	33,170	32,059	65,018	779	29	3,276	22,317
New Jersey.....	436	2,269	345	723	1,751	3,939	3,933	11,401	63	8	297	1,906
Pennsylvania.....	3,523	18,430	2,542	4,877	11,351	42,712	43,091	71,834	1,278	10	3,592	35,764
East North Central.....	16,900	88,414	12,495	24,125	55,624	172,987	174,965	331,102	5,700	45	26,751	231,879
Ohio.....	2,896	17,390	2,090	4,356	9,931	35,411	35,838	69,406	742	13	8,946	85,595
Indiana.....	267	1,211	254	538	1,045	2,624	2,544	5,446	14	2	485	3,933
Illinois.....	10,655	54,246	7,970	14,926	35,228	107,304	111,436	206,083	4,052	20	12,415	109,859
Michigan.....	433	2,053	309	593	1,119	3,809	3,737	7,880	146	5	1,753	9,480
Wisconsin.....	2,649	13,514	1,872	3,712	8,301	23,839	21,410	42,287	746	5	3,150	23,010
West North Central.....	2,595	9,107	2,140	4,221	6,158	17,958	17,489	32,028	485	12	1,610	8,196
Missouri.....	2,465	8,713	2,028	4,023	5,842	17,272	16,767	30,427	434	10	1,554	7,942
South Atlantic.....	1,362	4,719	1,083	2,082	3,231	14,695	14,296	29,853	514	12	712	8,219
East South Central.....	3,447	14,894	2,675	5,505	9,419	41,692	40,398	84,123	949	15	1,732	16,543
Tennessee.....	793	3,224	586	1,226	1,928	7,231	7,483	14,942	274	8	276	1,723
West South Central.....	650	2,034	573	1,140	1,597	2,271	3,221	5,690	35	4	75	401
West.....	2,251	11,574	1,734	3,342	7,946	36,029	36,969	57,320	608	14	2,451	33,924
Washington.....	295	1,459	237	448	993	1,985	2,094	5,033	84	4	393	2,233
California.....	1,806	9,525	1,374	2,680	6,502	33,635	34,468	50,150	492	9	1,754	29,488

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P)-36B-3

ENGINE ELECTRICAL EQUIPMENT INDUSTRY

(Industry Code 3641--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Engine Electrical Equipment Industry shipped products valued at \$632 million, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 14 percent from 1954 to 1958 to a total of 39.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$366 million in 1958, an increase of 9 percent from 1954 when the previous census was taken. Value added is derived

by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE ENGINE ELECTRICAL EQUIPMENT INDUSTRY IN THE UNITED STATES: 1954 AND 1954
(Standard Industrial Classification Code 3641)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	39.9	46.3	-14
Payroll.....	Million dollars...	202.1	200.3	+1
Production workers:				
Number.....	Thousands.....	30.9	37.2	-17
Man-hours.....	Millions.....	60.3	74.1	-19
Wages.....	Million dollars...	140.7	146.8	-4
Value added by manufacture, unadjusted ².....	.....	353.5	339.3	+4
Value added by manufacture, adjusted ³.....	...do.....	366.1	336.6	+9
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	261.2	264.6	-1
Value of shipments ⁵.....	...do.....	632.3	612.3	+3
Capital expenditures, new.....	...do.....	9.1	18.2	-50
Number of establishments with 20 or more employees ⁶	Number.....	99	105	-6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This Industry comprises establishments primarily engaged in manufacturing electrical equipment for internal-combustion engines. Important products of the industry include starting motors and battery-charging generators for automobiles and aircraft; regulators for battery charging generators; other ignition apparatus, including spark plugs, magnetos, coils, and distributors; and component parts for engine electrical equipment. Establishments primarily engaged in manufacturing electric motors (except starting motors) and electric power generators are classified in Industry 3614, Motors and Generators. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Engine Electrical Equipment Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Engine Electrical Equipment Industry amounted to \$632 million. Of this total, \$512 million were products primary to the industry, \$75 million were products primary to

other industries, and \$45 million were receipts for miscellaneous activities. The industry shipments of primary products represented 81 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$605 million of Engine Electrical Equipment were shipped by all producers of these products. Of this total, \$512 million, or 85 percent, were shipped by plants classified in Industry 3641, Engine Electrical Equipment, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE ENGINE ELECTRICAL EQUIPMENT INDUSTRY (S.I.C. CODE 3641) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	39,879	202,094	30,941	60,328	140,719	353,504	366,139	632,302	9,102	99	46,349	339,251
New England.....	2,410	11,940	1,805	3,551	7,266	16,757	17,817	37,159	431	11	2,376	13,692
Massachusetts.....	2,038	9,991	1,551	3,028	6,316	13,853	14,714	28,748	335	9	1,922	9,857
Middle Atlantic.....	7,847	34,930	5,772	11,902	22,269	54,850	57,376	88,544	1,130	23	10,718	63,774
New York.....	6,328	29,009	4,460	9,214	17,727	44,379	46,519	68,723	855	14	7,012	41,870
New Jersey.....	515	1,780	468	976	1,338	2,969	3,246	5,992	128	4	2,051	10,864
Pennsylvania.....	1,004	4,141	844	1,712	3,204	7,502	7,611	13,829	147	5	1,654	11,039
East North Central.....	28,132	149,195	22,122	42,373	106,479	270,101	279,439	483,474	7,025	46	31,707	253,641
Indiana.....	13,664	72,505	11,281	21,599	55,957	126,038	125,906	197,513	2,700	11	16,243	129,119
Wisconsin.....	2,031	9,177	1,708	3,076	7,163	11,666	10,651	21,211	330	4	957	4,189
West North Central.....	632	2,527	548	1,108	2,153	5,159	5,168	10,908	262	6	277	1,465
South.....	343	1,131	291	540	832	2,124	2,155	4,803	81	4	429	1,542
Pacific.....	469	2,206	370	786	1,599	4,318	3,943	6,858	172	8	839	5,134
California.....	462	2,179	364	774	1,576	4,267	3,883	6,780	170	8	839	5,134

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF ENGINE ELECTRICAL EQUIPMENT SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954.

(Includes quantity and value of these products reported not only by establishments classified in the Engine Electrical Equipment Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3641---	Engine electrical equipment, total.....	xxx	604,992	xxx	564,325
36411--	Ignition harness and cable sets.....	xxx	45,733	xxx	53,943
	Ignition harness sets:				
3641115	Aircraft type.....	xxx	9,623	xxx	10,810
3641111	Automotive type.....	xxx	27,026	xxx	32,009
3641119	Other type (including tractor, stationary, engine, etc.)....	xxx	7,293	xxx	919
3641151	Cable sets (automotive and aircraft type).....	xxx	1,791	xxx	9,059
3641100	Ignition harness sets and cable sets not specified by kind....	xxx	553,816	xxx	1,146
36412--	Other electrical equipment for internal combustion engines.....	xxx		xxx	510,382
	Complete units:				
	Battery charging generators for internal combustion engines:				
	Passenger car and light truck type:				
3641211	6 Volt.....	321	2,672	6,878	59,651
3641212	12 Volt.....	5,345	53,574		
3641213	Heavy-duty truck and bus type—12 volt and higher.....	581	10,405	279	6,546
3641217	Aircraft type.....	(NA)	1,870	(NA)	4,994
3641218	Other ¹	xxx	6,044	xxx	7,619
	Regulators for battery charging generators:				
3641221	Passenger car and light truck type.....	10,237	24,781	9,773	22,042
3641229	Other types (include heavy duty, truck and bus type).....	xxx	5,584	xxx	4,491
	Cranking motors for internal combustion engines:				
3641231	Passenger car and light truck type.....	5,735	63,001	6,569	63,712
3641233	Heavy-duty truck and bus type.....				
3641235	Farm tractor type.....	600	12,341	632	10,806
3641238	Other cranking motors (includes aircraft type).....	xxx	6,990	xxx	6,183
	Ignition apparatus for internal combustion engines:				
	Ignition coils:				
3641241	For automotive vehicles (trucks, buses, and passenger cars).....	8,634	15,258	10,495	16,662
3641242	Other ignition coils.....	3,780	5,853	6,772	8,823
	Distributors:				
3641243	Passenger car and light truck type.....	5,358	28,316	6,812	29,877
3641244	Other types.....	420	3,122	597	5,453
	Ignition magnetos:				
3641246	Farm tractor type.....	(NA)	1,173		
3641245	Aircraft type.....	(NA)	14,112	(NA)	15,452
3641247	Other ignition magnetos.....				
3641248	Spark plugs, automotive type.....	402,335	109,796	358,986	84,051
3641251	Other ignition equipment (including aircraft type spark plugs).....	xxx	20,595	xxx	29,580
3641252	Switches specifically designed for use in vehicles and aircraft (starting, ignition, lighting, etc.):				
	Automotive vehicles (trucks, buses, and passenger cars).....	103,292	38,945	87,744	31,403
3641255	Aircraft.....	xxx	4,733	xxx	5,720
3641257	Other vehicle switches.....	xxx	2,316	xxx	5,795
3641259	Other complete electrical equipment units for internal combustion engines and vehicles.....	xxx	13,879	xxx	9,755
	Component parts for engine electrical equipment:				
3641261	Armatures for battery charging generators.....			1,501	6,331
3641264	Armatures, field coils, and drive end housings for cranking motors.....	xxx	16,395	xxx	4,498
	Parts for ignition distributors:				
3641267	Distributor heads and rotors.....	xxx	3,706	xxx	4,372
	Breaker point sets:				
3641273	Contact arms.....	49,726	15,326	39,637	9,722
3641274	Contact supports and screws.....	34,926	8,844	34,698	7,266
3641275	Condensers.....	39,934	10,596	27,676	6,813
3641289	Other component parts for engine electrical equipment, including field coils for battery charging generators.....	xxx	48,458	xxx	37,051
3641200	Other electrical equipment for internal combustion engines not specified by kind.....	xxx	5,131	xxx	5,713
3641000	Engine electrical equipment, not specified by kind.....	xxx	5,443	xxx	(NA)

NA Not available.

xxx Not applicable.

¹Includes farm tractor, marine, stationary, and construction machinery types.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36B-4

INSULATED WIRE AND CABLE INDUSTRY

(Industry Code 3631—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Insulated Wire and Cable Industry shipped products valued at \$380 million, an increase of 16 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 17 percent from 1954 to 1958 to a total of 16.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$150 million in 1958, an increase of 37 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE INSULATED WIRE AND CABLE INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3631)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	16.8	14.4	+17
Payroll.....	Million dollars...	82.3	59.0	+39
Production workers:				
Number.....	Thousands.....	12.8	11.6	+10
Man-hours.....	Millions.....	26.8	26.7	..
Wages.....	Million dollars...	56.7	42.1	+35
Value added by manufacture, unadjusted ².....	.....do.....	148.1	110.3	+34
Value added by manufacture, adjusted ³.....	.....do.....	150.1	109.2	+37
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	231.6	217.3	+7
Value of shipments ⁵.....	.....do.....	380.0	328.1	+16
Capital expenditures, new.....	.....do.....	7.8	8.0	-3
Number of establishments with 20 or more employees ⁶	Number.....	90	73	+23

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Insulated Wire and Cable Industry includes establishments engaged primarily in the manufacture of insulated or armored wire and cable from purchased wire. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Insulated Wire and Cable Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Insulated Wire and Cable Industry amounted to \$380 million. Of this total, over \$365 million were products primary to the industry representing over 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 96 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,320 million of

insulated wire and cable were shipped by all producers of these products. Of this total, 25 to 30 percent, was shipped by plants classified in Industry 3631, Insulated Wire and Cable, while the remainder was shipped by plants classified in other industries, mainly by Industry 3392, Wire Drawing.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE INSULATED WIRE AND CABLE INDUSTRY (S.I.C. CODE 3631), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	16,773	82,298	12,755	26,781	56,683	148,060	150,137	380,005	7,750	90	14,410	110,317
Middle Atlantic.....	5,389	28,750	4,256	9,224	21,466	53,625	53,050	157,613	2,105	24	5,863	49,271
New York.....	1,342	6,965	1,012	2,130	4,994	11,387	10,243	39,293	295	7	1,792	12,504
New Jersey.....	3,501	19,673	2,760	5,927	14,727	39,072	39,576	110,828	1,607	12	3,456	32,677
Pennsylvania.....	546	2,112	484	1,167	1,745	3,166	3,231	7,492	203	5	615	4,089
All other divisions....	11,384	53,548	8,499	17,557	35,217	94,435	97,087	222,392	5,645	66	8,547	61,046
Massachusetts.....	3,445	15,307	2,596	5,384	9,814	23,462	23,834	53,980	1,205	15	2,800	19,342
Rhode Island.....	1,144	4,847	873	1,699	3,207	7,610	7,489	21,223	353	6	788	4,785
Indiana.....	351	1,420	292	659	1,135	2,877	3,107	13,090	(D)	2	368	3,096
Illinois.....	1,095	4,918	824	1,680	3,092	11,838	12,952	25,863	419	9	1,038	6,189

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF INSULATED WIRE AND CABLE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Insulated Wire and Cable Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3631----	Insulated wire and cable, including appliance wire and cord and flexible cord sets, total...	1,319,698	1,135,304
36311--	Communication wire and cable:		
	Made by wire drawers (Industry 3392).....	263,694	173,454
	Made in insulated wire and cable (Industry 3631) and other industries.....	102,374	74,919
	Total, all industries.....	366,068	248,373
3631113	Coaxial cable, lead or aluminum sheathed and flexible.....	15,142	12,907
3631121	Lead and hook-up wire.....	31,429	12,850
3631131	Drop and bridle wire.....	16,788	19,548
3631141	Distribution and jumper wire.....	20,002	10,296
3631151	Inside and duct telephone wire.....	8,485	6,427
3631171	Switchboard cable.....	22,629	15,185
	Lead-covered telephone cable (except coaxial):		
3631173	Paper and pulp insulated.....	52,445	171,160
3631175	Polyethylene insulated.....		
	Polyethylene-covered telephone cable (except coaxial):		
3631181	Paper and pulp-insulated.....	60,890	
3631185	Polyethylene insulated.....	92,948	
3631198	Other communication wire and cable.....	42,689	
3631100	Communication wire and cable not specified by kind.....	2,621	...
36312--	Other insulated wire and cable:		
	Made by wire drawers (Industry 3392).....	524,394	532,739
	Made in insulated wire and cable (Industry 3631) and other industries.....	297,365	245,583
	Total, all industries.....	821,759	778,322
3631211	Signal wire and cable.....	7,525	18,452
3631215	Control wire and cable, total.....	21,742	(¹)
	Magnet wire:		
	Enameled, including synthetic resin enamels (include combinations of enameled with other coverings:		
	Enameled only:		
3631220	Shipped to other companies.....	98,804	126,508
3631222	Transferred to other plants of the same company.....	40,157	
	Enameled and covered:		
3631223	Shipped to other companies.....	10,236	16,569
3631224	Transferred to other plants of the same company.....	2,965	

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

Table 3.--VALUE OF INSULATED WIRE AND CABLE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
	Insulated wire etc.—Continued		
	Other insulated wire and cable—Continued		
	Magnet wire:—Continued		
	Not enameled:		
	Glass covered:		
3631225	Shipped to other companies.....	9,575	10,758
3631226	Transferred to other plants of same company.....		
	Other:		
3631228	Shipped to other companies.....	9,850	20,257
3631229	Transferred to other plants of same company.....		
	Weatherproof and slow burning wire:		
3631231	Braided (including slow burning).....	16,590	42,225
3631237	Polychloroprene (neoprene) covered.....	11,090	16,831
3631239	Other (including thermoplastic covered, etc.).....	10,422	4,166
	Building wire and cable (having underwriters' labels) except varnished cambric insulated:		
3631241	Rubber insulated fibrous covered and/or neoprene jacketed (including lead covered).....	267,957	45,539
3631242	Metallic armored cable.....	16,310	19,244
3631243	Non-metallic sheathed cable.....	65,810	56,318
	Service cable (including self-supporting type, but excluding service entrance cable):		
3631244	Rubber insulated.....	(2)	25,047
3631245	Thermoplastic insulated.....	(3)	26,619
3631246	Service-entrance cable.....	22,249	21,428
3631248	Thermoplastic (no braid).....	366,513	16,870
3631249	Other building wire and cable (except varnished cambric insulated).....	9,245	10,005
	Power wire and cable:		
	Insulated for voltages under 601 volts:		
3631251	Portable power cables.....	19,705	19,896
3631252	Varnished cambric insulated (including varnished cambric building wire).....	3,280	4,468
3631253	Thermoplastic.....	11,202	5,310
3631254	Rubber insulated (except building wire).....	54,528	44,405
3631255	Asbestos and asbestos varnished cambric.....	5,737	6,190
3631256	Other power wire and cable under 601 volts.....	3,091	9,267
	Insulated for voltages of 601 volts and higher:		
3631261	Portable power cables.....	5,734	5,104
3631263	Varnished cambric insulated.....	6,581	9,454
3631265	Paper insulated.....	40,866	40,453
3631267	Rubber insulated.....	38,035	26,095
3631268	Thermoplastic.....	5,394	3,082
3631269	Other power wire and cable, 601 volts and higher.....	2,549	
	Automotive and aircraft type wire and cable:		
3631273	Aircraft wire, other than ignition, total.....	13,739	10,199
3631275	Insulated battery, starter and other primary wire and cable (except cable sets)....	14,384	5,927
3631279	Other automotive and aircraft type wire and cable including secondary ignition (except cable sets, harness sets and noninsulated battery cable).....	3,309	17,039
3631289	Marine wire and cable (U. S. Navy and Merchant Marine).....	10,369	25,558
3631298	Other insulated wire and cable.....	83,765	163,298
3631200	Insulated wire and cable, other than communication wire and cable, not specified by kind.....	4,684	5,741
3631000	Insulated wire and cable, not specified by kind.....	7,900	...
36993--	Appliance wire and cable, and cord and flexible cord sets:		
	Made by wire drawers (Industry 3392).....	38,865	43,366
	Made in insulated wire and cable (Industry 3631).....	23,864	22,202
	Made in electrical products n.e.c. (Industry 3699) and other industries.....	61,242	43,041
	Total, all industries.....	123,971	108,609
3699311	Flexible cord sets.....	45,768	40,609
	Appliance wire and cord:		
3699321	Fixture wire (including heat resistant).....	7,266	10,551
	Flexible cord (including heater cord):		
3699322	Rubber insulated.....	18,868	22,643
3699325	Thermoplastic insulated.....	11,742	10,515
3699329	Other appliance wire and cord.....	35,230	22,068
3699300	Appliance wire and cable and cord and flexible cord sets not specified by kind.....	5,097	2,223

¹Control wire and cable included in code 3631298 in 1954.²Rubber insulated service cable (product code 3631244) combined with product code 3631241.³Thermoplastic insulated service cable (product code 3631245) combined with thermoplastic (no braid) service cable (product code 3631248).

1958

Census of Manufactures

Industry and Product Reports

(Subject to Revision)

FOR RELEASE: December 1, 1960

MC(P)-36B-4(Rev.)

CHANGE SHEET

INSULATED WIRE AND CABLE INDUSTRY

(Industry Code 3631--SIC system in use through 1957)

The following changes should be made in the report for Insulated Wire and Cable Industry, MC(P)-36B-4, April 1960, table 3, page 4.

Product code	Product	Value of shipments including interplant transfers (\$1,000)			
		1958	1954	1958	1954
		From		To	
	Other insulated wire and cable ¹ --(Continued)				
	Weatherproof and slow burning wire:				
3631231	Braided (including slow burning).....	16,590	42,225	16,478	42,225
3631237	Polychloroprene (neoprene) covered.....	11,090	16,831	11,527	13,409
3631239	Other (including thermoplastic covered, etc.)...	10,422	4,166	9,983	4,166
	Building wire and cable (having underwriters' labels) except varnished cambric insulated:				
3631241	Rubber insulated fibrous covered and/or neoprene jacketed (including lead covered).....	² 67,957	45,539	56,653	59,252
3631242	Metallic armored cable.....	16,310	19,244	16,610	19,244
3631243	Non-metallic sheathed cable.....	65,810	56,318	66,330	56,318
	Service cable (including self-supporting type, but excluding service entrance cable):				
3631244	Rubber insulated.....	(²)	25,047	11,731	13,458
3631245	Thermoplastic insulated.....	(³)	26,619	16,322	13,152
3631246	Service-entrance cable.....	22,249	21,428	18,109	21,428
3631248	Thermoplastic (no braid).....	³ 66,513	16,870	52,844	31,525
3631249	Other building wire and cable (except varnished cambric insulated).....	9,245	10,005	10,118	11,162
	Power wire and cable:				
	Insulated for voltage under 601 volts:				
3631254	Rubber insulated (except building wire).....	54,528	44,405	55,808	43,361

¹Data in this change sheet are limited to those products for which significant revisions have been made.

²Rubber insulated service cable (product code 3631244) combined with product code 3631241.

³Thermoplastic insulated service cable (product code 3631245) combined with thermoplastic (no braid) service cable (product code 3631248).

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -36C-1

PHONOGRAPH RECORDS INDUSTRY

(Industry Code 3663--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Phonograph Records Industry shipped products valued at \$148 million, an increase of 61 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 19 percent from 1954 to 1958 to a total of 7.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$93 million in 1958, an increase of 57 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE PHONOGRAPH RECORDS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3663)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.4	6.2	+19
Payroll.....	Million dollars...	33.4	23.3	+43
Production workers:				
Number.....	Thousands.....	5.9	4.7	+25
Man-hours.....	Millions.....	12.2	9.4	+30
Wages.....	Million dollars...	23.7	15.7	+51
Value added by manufacture, unadjusted ²	do.....	88.5	57.4	+54
Value added by manufacture, adjusted ³	do.....	92.8	59.0	+57
Cost of materials, fuel, electricity, and contract work ⁴	do.....	58.9	33.8	+74
Value of shipments ⁵	do.....	148.7	92.5	+61
Capital expenditures, new.....	do.....	4.0	3.0	+33
Number of establishments with 20 or more employees ⁶	Number.....	53	22	+141

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.



The Phonograph Records Industry includes establishments engaged primarily in the manufacture of phonograph records and record blanks. Establishments engaged exclusively in the production of master records are not included within the scope of the Census of Manufactures, but establishments engaged both in the manufacturing (or pressing) of records and in the production of master records are included. However, the statistics for this industry exclude all costs and payments relating to the production of master records. Royalties and other payments to performers, publishers, the American Federation of Musicians, etc., are not included in the value of shipments for this industry. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Phonograph Records Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Phonograph Records Industry amounted to \$148

million. Of this total, \$136 million were products primary to the industry. Virtually all of the remainder were products primary to other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$139 million of phonograph records were shipped by all producers of these products. Of this total, \$136 million, or 98 percent, were shipped by plants classified in Industry 3663, Phonograph Records, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

Table 2.—GENERAL STATISTICS FOR THE PHONOGRAPH RECORDS INDUSTRY (S.I.C. CODE 3663) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,425	33,392	5,858	12,154	23,739	88,522	92,776	148,652	4,042	53	6,152	57,387
New England.....	1,185	5,393	852	1,836	3,388	19,083	20,451	34,062	57	4	1,295	11,710
Middle Atlantic.....	3,120	13,777	2,551	5,307	10,348	26,090	26,638	48,065	1,715	26	2,227	14,464
New Jersey.....	1,466	6,524	1,196	2,406	4,831	16,385	16,755	25,326	1,018	12	669	5,801
North Central.....	1,709	7,828	1,368	2,765	5,472	31,182	32,960	45,521	1,684	7	1,649	23,308
South and West.....	1,411	6,394	1,087	2,246	4,531	12,167	12,727	21,004	586	16	980	7,904

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PHONOGRAPH RECORDS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Phonograph Records Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3663---	Phonograph records.....	.....	xxx	xxx	139,294	xxx	xxx	80,224
36631--	Phonograph records and prerecorded tapes....	.....	xxx	xxx	135,098	xxx	xxx	77,446
	Disc records (except electrical transcriptions):							
3663112	78 r.p.m. for own label.....	Thousands.....	6,781	6,695	1,068	129,370	127,628	24,768
3663114	78 r.p.m. on contract basis for others...	...do.....	xxx	16,631	2,002			
3663122	45 r.p.m. for own label.....	...do.....	82,805	70,729	19,409			
3663124	45 r.p.m. on contract basis for others...	...do.....	xxx	114,478	13,382	78,694	76,219	20,997
3663132	33 1/3 r.p.m. for own label.....	...do.....	71,259	59,916	70,982			
3663134	33 1/3 r.p.m. on contract basis for others.....	...do.....	xxx	42,741	15,709			
3663161	Other speeds, including electrical transcriptions of all speeds.....	...do.....	11,578	16,892	5,433	16,877 (²)	16,827 (²)	13,689 (²)
3663181	Prerecorded tapes.....	Thousand reels...	3,289	3,121	4,286			
3663100	Phonograph records not specified by kind.....	.....	xxx	xxx	2,827	xxx	xxx	(^{1 2}) 6,079
36632--	Record blanks (disc and cylinder):							
3663212	Disc type and other record blanks.....	.....	xxx	xxx	4,196	xxx	xxx	2,778

xxx Not applicable.

¹In 1954 electrical transcriptions included only 33 1/3 r.p.m. an undetermined quantity and value of the other speeds were included in code 3663100.

²In 1954, prerecorded tapes were included in code 3663100.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36C-2

ELECTRON TUBES INDUSTRY

(Industry Code 3662--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Electron Tubes Industry shipped products valued at \$1,105 million, an increase of 53 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 30 percent from 1954 to 1958 to a total of 92.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$746 million in 1958, an increase of 66 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ELECTRON TUBES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3662)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	92.3	71.0	+30.0
Payroll.....	Million dollars...	417.6	254.9	+63.8
Production workers:				
Number.....	Thousands.....	72.9	57.9	+25.9
Man-hours.....	Millions.....	349.0	112.1	+211.3
Wages.....	Million dollars...	282.2	186.9	+51.0
Value added by manufacture, unadjusted ².....	..do.....	739.6	461.9	+60.1
Value added by manufacture, adjusted ³.....	..do.....	745.9	450.5	+65.6
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	360.2	258.1	+39.6
Value of shipments ⁵.....	..do.....	1,104.8	722.3	+53.0
Capital expenditures, new.....	..do.....	40.0	32.8	+22.0
Number of establishments with 20 or more employees ⁶	Number.....	168	117	+43.6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Electron Tubes Industry includes establishments engaged primarily in the manufacture of electron tubes. Products of this industry include cathode ray tubes (including TV picture tubes), transistors and diodes, radio receiving-type tubes, transmitting and industrial type tubes, and electron tube parts (except glass blanks) sold separately. Establishments primarily engaged in manufacturing X-Ray tubes are classified in Industry 3693, X-Ray and Therapeutic Apparatus. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Electron Tubes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Electron Tubes Industry amounted to \$1,105 million. Of this total, \$985 million were products primary to the industry, \$44 million were products primary to other industries, and \$76

million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,025 million of Electron Tubes were shipped by all producers of these products. Of this total, \$985 million, or 96 percent, were shipped by plants classified in Industry 3662, Electron Tubes, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE ELECTRON TUBES INDUSTRY (S.I.C. CODE 3662), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	92,283	417,585	72,856	348,958	282,212	739,619	745,898	1,104,834	39,974	168	70,950	461,904
New England.....	19,108	79,272	16,082	32,240	59,317	124,789	120,255	182,476	5,479	26	14,943	75,920
Middle Atlantic.....	42,903	200,059	32,964	271,477	130,474	342,701	350,616	521,148	21,677	82	33,815	239,137
Pennsylvania.....	19,077	88,968	14,898	28,895	60,191	152,784	159,703	226,415	12,997	26	15,225	114,829
North Central.....	12,058	48,156	10,172	18,694	36,261	104,354	104,651	177,382	2,451	23	11,807	84,172
Ohio.....	3,054	11,262	2,720	5,024	9,510	27,021	28,113	40,154	506	2	2,738	27,399
Illinois.....	2,159	10,246	1,663	3,174	6,077	18,374	19,681	41,247	1,049	12	2,325	11,402
South.....	9,467	39,391	7,901	15,054	29,507	93,322	93,632	114,313	2,959	10	7,998	46,166
West.....	8,747	50,707	5,737	11,493	26,653	74,453	76,744	109,515	7,408	27	2,385	16,507

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 1.--QUANTITY AND VALUE OF ELECTRON TUBES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Electron Tubes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3662---	Electron tubes.....	xxx	1,024,955	xxx	709,614
3662111	T. V. picture tubes.....	9,671	177,251	10,565	212,968
3662211	Other cathode ray tubes (including oscilloscopes, camera pick-up tubes, monoscopes, storage tubes, iconoscopes, and orthicons).....	271	22,724	221	16,159
36623--	Other radio and T. V. receiving type electron tubes (including radio receiving rectifier tubes and voltage regulator tubes)...	xxx	327,017	xxx	288,821
3662311	Glass:				
3662312	Standard, GT, and GT/G.....	115,138	88,919	¹ 125,481	¹ 87,540
3662313	Miniature.....	288,167	211,080	233,613	149,125
3662314	Subminiature.....	4,275	12,292	48,112	26,581
3662351	Other glass (including lock-in) and metal.....	13,984	14,726	¹ 25,582	¹ 25,575
36624--	Transmitting industrial and special purpose electron tubes (except X-ray and cathode ray tubes).....	xxx	435,260	xxx	162,554
3662412	High vacuum tubes (non-receiving types):				
3662413	Rectifiers.....	3,589	17,849	642	4,731
3662413	Triodes and multigrid:				
3662415	External anode.....	591	22,451	370	15,949
3662415	Internal anode:				
3662417	Plate dissipation (100 watts and under).....	1,574	8,240	2,923	15,759
3662417	Plate dissipation (over 100 watts).....	208	6,008	93	2,920
3662421	Gas or vapor tubes (including pool tubes):				
3662421	Rectifiers (except tungar and rectigon types).....	2,085	7,531	1,502	4,049
3662423	Grid control types, ignitor, etc. (except hydrogen thyratrons).....	444	6,330	921	9,839
3662425	Thyratrons (hydrogen).....	190	5,654	339	10,349
3662427	Klystrons.....	170	27,926	xxx	(²)
3662432	Velocity modulated tubes (except klystron and magnetron).....	(²)	(²)	121	8,650
3662441	Gaps T/R and anti T/R tubes.....	250	10,296	257	6,332
3662451	Magnetrons.....	109	50,626	122	49,691
3662471	Semi-conductor diodes (rectifiers):				
3662471	Selenium diodes and stacks:				
3662473	2" X 2" square and below.....	12,070	13,293	...	(²)
3662473	Above 2" X 2" square.....	940	10,931	...	(²)
3662475	Silicon diodes and stacks:				
3662477	Point contact type.....	8,758	16,029	...	(²)
3662477	Junction type.....	11,320	34,133	...	(²)
3662481	Germanium diodes and stacks:				
3662483	Point contact type.....	14,163	6,730	...	(²)
3662483	Junction type (including gold bonded).....	20,803	18,603	...	(²)
3662485	Transistors:				
3662485	Silicon type.....	3,806	39,312	(²)	(²)
3662487	Germanium type.....	46,237	85,757	...	(²)
3662489	All other solid state semi-conductor devices (including copper oxide, copper sulphide, infrared, solar cells, other light sensitive, etc.).....	1,433	7,472	...	(²)
3662498	Miscellaneous type transmitting, industrial and special purpose tubes (including ballast, photo, photo multiplier, vacuum capacitor, vacuum switch, vacuum relay, vacuum gauge, battery charger rectifying tubes, traveling wave, backward wave oscillators, etc.).....	xxx	40,089	xxx	11,683
36625--	Electron tube parts (except glass blanks) (sold separately).....	xxx	52,058	...	...
3662513	T. V. picture tubes.....	...	9,083	...	...
3662515	Radio and receiving type electron tubes (except cathode ray).....	...	36,171	xxx	29,112
3662519	Other electron tubes (except X-ray).....	...	6,804	...	...
3662000	Electron tubes, not specified by kind.....	xxx	10,645	...	...

xxx Not applicable.

¹In 1954 data for lock-in glass receiving type tubes included with standard GT and GT/G tubes.

²For 1958, included with data for product code 3662498, miscellaneous type transmitting industrial and special purpose tubes.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-36C-3

RADIOS AND RELATED PRODUCTS INDUSTRY

(Industry Code 3661--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Radio and Related Products Industry amounted to \$2,604 million, an increase of 25 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed an increase of 5 percent from 1954 to 1958 to a total of 308 thousand employees in 1958.

The Radios and Related Products Industry includes establishments engaged primarily in the manufacture of radio and television receiving and transmitting equipment, electrical and magnetic field detection apparatus, light and heat emission detecting apparatus, object detection apparatus (radar), and other apparatus and products associated with radio equipment, including miscellaneous radio parts; phonographs and

accessories (except records--Industry 3663, Phonograph Records); and public-address and music-distribution apparatus. Other important products of Industry 3661 include electronic type components for communications, recorders, amplifiers, and audio equipment. Establishments primarily engaged in manufacturing radio receiving and transmitting tubes are classified in Industry 3662, Electronic Tubes; radio, phonograph, and TV cabinets are classified in Major Group 25, Furniture and Fixtures; dictating machines in Industry 3579, Office and Store Machines, N.E.C.; and sound reproducing motion picture projectors in Industry 3861, Photographic Equipment and Supplies. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

Products for electronic applications such as capacitors and resistors are included in Industry 3661. These products for electrical applications are included in Industry 3619, "Electrical Industrial Apparatus, N.E.C." To the extent that there may not be sufficient distinction between electrical or electronic applications of products such as capacitors and resistors, an unknown amount may have been reported either in Industry 3661 or Industry 3619. Therefore the Industry 3661 and 3619 shipments data for these products should be considered jointly.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments of Industry 3661 include extensive duplication resulting from the use of the products of some establishments as materials by others. This is especially true of parts and components for radios, phonographs, and other electronic equipment. Many of these components are shipped to producers of complete radios, phonographs, and electronic equipment, whose value of shipments includes the value of components reported as shipments by other manufacturers. The value of such parts and components appears twice in the total value of shipments in table 3, since both types of establishments are classified in Industry 3661. A corresponding duplication exists in the total cost of materials. Totals are therefore not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product specialization ratio" for this industry cannot be com-

puted. This ratio describes the extent to which plants classified in an industry "specialize" in making products described as primary to the industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

Table 1.—GENERAL STATISTICS FOR THE RADIOS AND RELATED PRODUCTS IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3661)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	308.2	294.0	+5
Payroll.....	Million dollars...	1,509.4	1,130.4	+33
Production workers:				
Number.....	Thousands.....	215.6	220.9	-3
Man-hours.....	Millions.....	431.2	435.1	-1
Wages.....	Million dollars...	882.0	742.7	+19
Value added by manufacture, unadjusted ²	do.....	2,566.1	2,130.2	+20
Value added by manufacture, adjusted ³	do.....	2,604.2	2,080.9	+25
Cost of materials, fuel, electricity, and contract work.....	do.....	(5)	(5)	...
Value of shipments.....	do.....	(5)	(5)	...
Capital expenditures, new.....	do.....	89.0	73.6	+21
Number of establishments with 20 or more employees ⁴	Number.....	1,062	885	+20

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁵Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 2.—GENERAL STATISTICS FOR THE RADIOS AND RELATED PRODUCTS INDUSTRY (S.I.C. CODE 3661) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees ⁴	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	308,246	1,509,381	215,641	431,165	882,038	2,566,102	2,604,226	(5)	88,953	1,062	293,998	2,130,207
New England.....	33,202	142,634	25,042	51,129	92,359	245,953	248,806	(5)	7,763	142	27,078	174,915
New Hampshire.....	4,543	17,388	3,888	8,231	13,533	24,928	24,148	(5)	1,358	14	3,378	17,255
Massachusetts.....	22,310	98,929	16,035	32,573	61,214	180,046	182,600	(5)	4,272	79	18,409	126,212
Rhode Island.....	374	978	316	580	750	1,993	1,926	(5)	77	3	282	1,306
Connecticut.....	5,310	22,999	4,208	8,563	15,070	35,306	36,365	(5)	1,929	42	4,486	25,674
Middle Atlantic.....	102,018	545,159	68,516	135,997	299,802	945,240	927,150	(5)	28,467	355	108,359	837,575
New York.....	51,747	280,756	33,662	67,237	145,102	526,843	522,563	(5)	13,280	196	45,885	380,370
New Jersey.....	35,081	196,792	23,961	47,827	113,909	308,200	301,289	(5)	11,578	99	38,036	293,793
Pennsylvania.....	15,190	67,611	10,893	20,933	40,791	110,197	103,298	(5)	3,609	60	24,438	163,411
East North Central.....	85,334	370,585	64,135	125,096	238,988	665,058	702,186	(5)	18,750	269	96,433	703,833
Ohio.....	9,272	38,681	7,368	13,878	26,695	68,385	61,948	(5)	3,882	38	10,510	69,853
Indiana.....	16,641	77,369	12,762	25,320	49,765	132,645	134,632	(5)	3,409	36	23,643	171,894
Illinois.....	51,307	219,407	37,894	73,985	139,322	396,821	438,121	(5)	9,653	157	54,677	409,755
West North Central.....	12,510	52,272	9,158	18,248	31,770	90,884	97,355	(5)	5,327	46	13,041	83,326
Minnesota.....	1,943	7,939	1,452	2,919	4,973	14,196	14,459	(5)	545	15	1,704	14,226
Missouri.....	1,526	5,306	978	1,681	2,586	7,422	7,998	(5)	122	8	3,983	22,422
South.....	36,874	183,632	22,358	46,354	90,623	297,017	305,873	(5)	11,672	81	23,959	162,230
North Carolina.....	13,827	65,639	8,531	16,525	31,988	87,577	98,295	(5)	3,965	15	8,608	49,185
Texas.....	4,138	21,890	2,371	5,024	9,392	32,765	29,481	(5)	2,314	7	2,945	20,453
West.....	38,308	215,099	26,432	54,341	128,506	321,948	322,856	(5)	16,974	169	25,125	168,325
California.....	35,609	200,302	24,290	49,754	117,409	299,549	300,156	(5)	16,159	157	24,808	166,754

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁵Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF RADIOS AND RELATED PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Radios and Related Products Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3661---	Radios and related products, total.....	xxx	(1)	xxx	(1)
3661100	Phonograph needles and cutting styli.....	xxx	10,931	xxx	5,813
3661210	Household radio receivers; automobile radios; phonographs; and record players as reported in Census of Manufactures.....	xxx	552,114	xxx	363,568
	Household radio receivers and radio-phonographs (complete sets), phonographs and record players (except radio-TV and radio-phono-TV combinations) as reported on Census Form NA-36B ²	xxx	547,996	xxx	(NA)
	Home-type radio receivers: Socket powered: Table models, except clock: AM.....	2,336	31,031	2,842	41,395
	AM-FM and FM only.....	251	8,582	3124	34,159
	Clock models (AM and AM-FM).....	2,076	37,942	1,862	37,419
	Console models (AM and AM-FM).....	...	...	36	608
	Battery powered table and console models.....	7	181	445	4767
	Portable radio receivers: 3-way (A.C., D.C., and battery).....	766	17,271	1,233	26,127
	Transistor.....	2,438	63,101	336	5,655
	Other portable radio receivers.....	138	1,966		
	Home-type radio-phonograph combinations, complete sets (including sets with built-in recorders, but excluding TV sets): Table models, including portable sets, AM and AM-FM.....	403	22,358	296	14,895
	Console models: AM.....	203	22,311	28	2,696
	AM-FM.....	181	37,153	53	7,507
	Automobile radios (broadcast receivers only).....	3,935	101,766	4,306	111,415
	Phonographs: Mechanical acoustical reproduction phonographs (with spring or electric motor).....	434	3,731	698	7,761
	Electronic phonographs (with speaker): Coin operated.....	52	37,152	63	39,530
	Non-coin operated.....	3,264	148,600	1,898	50,799
	Record player attachments (including record players with automatic record changing devices): Complete with case (plug-in or induction types only).....	387	9,664	427	7,823
	For installation in combination sets and custom built sets.....	228	5,187	241	4,161
3661200	Household radio receivers and radio-phonographs (complete sets), phonographs and record players (except radio-TV and radio-phono-TV combinations), not specified by kind.....	...	...	...	851
36613--	TV receivers including radio-TV and radio-phono-TV combinations (complete sets).....	xxx	728,261	xxx	1,020,992
3661312	Industrial TV receiving sets as reported in the Census of Manufactures.....	xxx	1,044	xxx	1,020,992
3661320	Home-type television sets and other complete television sets as reported in the Census of Manufactures.....	xxx	721,570		
	TV receivers including radio-TV and radio-phono-TV combinations (complete sets) as reported on Census Form NA-36B ²	xxx	691,242	xxx	(NA)
	Table models, including portable sets (with or without conventional radio).....	3,079	336,087	3,803	464,873
	Console and consolette models (with or without conventional radio).....	2,124	338,806	3,112	526,147
	Radio-phonograph-TV combination models.....	78	16,349	127	29,421
	Industrial TV receiving sets.....	(NA)	(NA)	xxx	551
	Other TV receivers.....	(NA)	(NA)		
3661300	TV receivers not specified by kind.....	xxx	5,647	xxx	...

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF RADIOS AND RELATED PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
36614--	Radios and related products—Continued				
	Commercial radio and TV communications, radio and electronic navigation aids, etc.....	xxx	1,617,609	xxx	1,374,879
	Communications equipment (except broadcast equipment and home-type receivers):				
	Transmitters and radio frequency power amplifiers:				
3661412	Airborne.....	xxx	21,081	xxx	(5)
3661413	Fixed station.....	xxx	20,217		
3661414	Land mobile.....	xxx	13,563		
3661415	Marine (shipboard).....	xxx	3,406		
3661416	Microwave.....	xxx	10,536	xxx	(5)
3661418	Other.....	xxx	10,950	xxx	586,514
	Receivers:				
3661422	Airborne.....	xxx	16,009	xxx	(6)
3661423	Fixed, land mobile and portable.....	xxx	16,103		
3661424	Marine (shipboard).....	xxx	668		
3661425	Microwave.....	xxx	4,077		
3661428	Other.....	xxx	6,058	xxx	648,408
	Two-way radio, including transceivers:				
3661451	Base stations.....	xxx	37,442	xxx	(7)
3661452	Airborne.....	xxx	81,543	xxx	109,164
3661453	Land mobile.....	xxx	68,243	xxx	(7)
3661455	Marine (shipboard).....	xxx	5,939		
3661454 } 3661458 }	Portable and other.....	xxx	21,432	xxx	7135,665
3661459	Other communications equipment (except broadcast equipment and home type receivers).....	xxx	41,955	xxx	(8)
3661462	Electronic navigational aids (including GCA, ILS, Loran, Tacan, etc.).....	xxx	224,858	xxx	9254,639
3661465	Electronic search and detection apparatus, including radar, infrared, etc., but excluding sonar.....	xxx	902,926		
3661467	Sonar.....	xxx	51,270		
	Broadcast equipment:				
	Transmitters:				
3661472	AM and FM.....	xxx	5,156	xxx	4,986
3661475	TV.....	xxx	6,792	xxx	20,938
3661478	Other AM, FM, and TV broadcast equipment (including antennas, except receiving type; studio TV cameras, audio and video broadcast equipment, monitoring and related equipment; excluding studio lighting equipment, radiating and supporting towers, STL and remote relay links, and closed circuit TV and cameras).....	xxx	19,841	xxx	53,078
3661491	Industrial (closed circuit) television, including cameras but excluding industrial TV receiving sets.....	xxx	6,866		
3661491	Radio amateur electronic kits to be assembled by consumers (including transmitters, commercial receivers, Conelrad devices, and VFO kits).....	xxx	7,485	xxx	(10)
3661400	Commercial radio and TV communications, radio and electric navigational aids, etc., not specified by kind.....	xxx	13,193	xxx	87,355
36615--	Electronic type components for communications and industrial electronic controls.....	xxx	1,202,652	xxx	987,928
	Capacitors, fixed (except capacitors for power-factor correction and capacitors for fluorescent tube ballasts):				
3661512	Paper capacitors, including metalized paper.....	250,255	46,975	443,083	67,235
	Electrolytic capacitors:				
3661514	Aluminum.....	65,140	34,069	75,658	39,392
3661516	Tantalum.....	1,082	15,354		
3661517	Ceramic capacitors.....	581,580	26,681	560,347	27,015
3661518	Mica capacitors.....	141,543	14,788	105,431	13,539
3661519	Other, including film, glass, etc.....	xxx	22,093	79,499	10,785

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF RADIOS AND RELATED PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
	Radios and related products—Continued				
	Electronic type components for communications and industrial electronic controls—Continued				
	Resistors for electronic applications:				
	Composition:				
3661521	Fixed.....	1,617,442	38,733	1,419,410	30,669
3661522	Variable, including rheostats and potentiometers.....	117,272	31,168	111,270	25,325
	Wire-wound:				
3661524	Fixed, including precision.....	304,557	21,259		
	Variable:				
3661526	Precision potentiometers (1% or less deviation from standard curve).....	xxx	26,831	xxx	28,529
3661528	Semiprecision and non-precision (more than 1% deviation from standard curve).....	xxx	5,495		
3661532	Film resistors, fixed (borocarbon, deposited carbon, and metal film).....	45,258	11,430		
3661534	Other (including adjustable resistors, attenuators, varistors, thermistors, tape resistors, etc.).....	xxx	11,872	xxx	10,262
3661536	Variable tuning condensers.....	xxx	11,443	8,797	10,442
3661538	Variable trimming condensers and condenser accessories.....	xxx	4,526	xxx	5,089
3661539	Permeability tuning devices.....	xxx	9,449	xxx	4,840
3661542	RF and IF coils, transformers, and chokes.....	217,087	46,260	261,083	96,097
	Transformers and reactors for electronic applications, except RF and IF:				
3661543	Audio.....	xxx	36,153	(11)	(11)
3661544	Power (all types).....	xxx	61,751	xxx	34,183
3661546	Pulse.....	xxx	11,776		
3661547	TV (horizontal output, vertical deflection, focus coils, deflection yokes, etc.).....	xxx	29,664	(11)	(11)
3661549	Other (including toroidal, focusing solenoids, etc.).....	xxx	21,329	(11)	(11)
3661552	Tube sockets.....	xxx	14,523	xxx	15,182
3661554	Switches, coaxial, tap, rotary wafer, slide selector, and similar type.....	xxx	21,093	xxx	20,741
3661555	Loudspeakers, speaker systems (sold separately) and horns....	xxx	63,714	xxx	45,546
3661556	Antenna, receiving, radio and TV (home, portable and automotive, except communication whip type).....	9,644	66,504	22,914	72,257
3661558	Tuners, TV.....	3,087	34,721	6,239	68,392
3661559	TV boosters and converters (including UHF and color).....	140	2,309	12486	127,584
3661564	Microphones (all types).....	1,551	11,763	1,123	7,073
3661566	Phonograph cartridges and pick-ups.....	xxx	21,253	5,453	11,850
3661568	Recorder mechanisms only, tape, wire and disc (sold separately without built-in speakers, amplifiers, etc.).....	...	(13)	xxx	7,605
3661569	Vibrators for radio power supplies (for automobile, marine, etc. installations).....	5,294	5,876	7,601	9,048
3661572	Printed circuit boards, cables, and forms already etched, plated, etc. ready for component insertion.....	xxx	15,659	xxx	3,101
3661574	Complex components (including modules, printed electronic circuits, filters, pulse networks, coupling circuits, and other component combinations for electronic applications sold as a single unit).....	xxx	31,164	xxx	(10)
3661585	Chassis for home-type radio receivers, for sale separately as reported in Census of Manufactures.....	xxx	1,311	xxx	3,771
	Chassis for home-type radio receivers for sale separately as reported on Census Form NA-36N ²	29	1,358	xxx	(NA)
	Sold to radio and TV manufacturers.....	10	459	56	1,112
	Sold to others.....	19	899	51	2,659
3661597	Chassis for home-type television receivers for sale separately as reported in Census of Manufactures.....	xxx	4,702	xxx	4,255
	Chassis for home-type television receivers for sale separately as reported on Census Form NA-36N ²	38	2,916	xxx	(NA)
	Sold to radio and TV manufacturer.....	8	405	28	3,375
	Sold to others.....	30	2,511	19	880

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF RADIOS AND RELATED PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
	Radios and related products—Continued				
	Electronic type components for communications and industrial electronic controls—Continued				
3661588	Connectors for electronic applications.....	xxx	63,184	}	
3661589	Specialized ferrite components for electronic applications (including ferrite tape recorder heads, microwave attenuators and isolators, UHF wave guide modulators, rotators, etc.)....	xxx	13,477		
3661591	Hermetic seals, for electronic applications.....	...	18,941		
	Quartz crystals:				
3661592	Mounted.....	xxx	9,358	xxx	(10)
3661593	Unmounted.....	xxx	1,161		
3661594	Relays for electronic applications.....	3,054	12,099	}	
3661595	Power supplies (including regulated, transistorized, and electronic vibrator types) for electronic applications.....	xxx	24,054		
3661596	Waveguides and waveguide fittings.....	xxx	22,699		
3661598	Other electronic components such as chassis blanks, dial assemblies, quartz crystal blanks, piezo electric crystals (except quartz), delay lines, crystal holders, transducers, insulators, phonomotor assemblies, antenna rotators, etc....	xxx	13,194,086	xxx	10,123,236,232
3661500	Electronic type components for communications and industrial electronic controls, not specified by kind.....	xxx	9,902	xxx	19,956
36616--	Recorders, amplifiers, audio equipment, etc.....	xxx	163,663	xxx	71,951
3661621	Recorders, tape, wire and disc, sold separately (except radio phonograph combinations, office recording machines and recorder mechanisms sold separately; see code 3661568).....	xxx	44,834	293	27,110
3661641	Recording magnetic tape and wire.....	xxx	33,907	xxx	9,098
3661657	Magnetic amplifiers.....	xxx	6,085	}	18,881
3661662	Amplifiers, audio, complete units and preamplifiers, audio (sold separately).....	641	34,663		
3661665	Tuners, AM, FM, AM-FM and tuner amplifier combinations.....	xxx	3,812	}	13,860
3661667	Home-type electronic kits to be assembled by consumer for radio receivers, tuners, amplifiers, and other audio equipment (see code 3661491) for amateur kits).....	xxx	13,326		
3661691	Other sound equipment, except broadcast (including complete public address systems, slide film projection, audio units, music distribution apparatus, etc., but excluding components).....	xxx	19,064		
3661600	Recorders, amplifiers, audio equipment, etc., not specified by kind.....	xxx	7,972	xxx	3,002
36617--	Electronic military, industrial and commercial equipment, n.e.c.	xxx	359,930	}	9,136,141
3661731	Telemetering equipment.....	xxx	49,776		
3661721	Ultrasonic equipment and other including electronic meteorological equipment and systems (ray-wind, radiosonde, etc.); facsimile equipment (except telegraph); etc.....	xxx	308,145		
3661751		xxx			
3661700	Electronic military, industrial and commercial equipment, not specified by kind.....	xxx	2,009	}	21,757
3661000	Radios and related products, not specified by kind.....	xxx	92,809		

NA Not available.

xxx Not applicable.

¹Omitted because of significant amount of duplication in value of shipments.²For 1958, the detailed product figures identified by *italics* are from the current annual survey M-36M. "Home-type radio receivers and television sets, automobile radios, phonographs, and record player attachments." The 1954 product detail was collected as part of the 1954 Census of Manufactures.³In 1954, includes FM converters.⁴Reported as table models only in 1954.⁵Included with "Other transmitters" in 1954.⁶Included with "Other receivers" in 1954.⁷Included with "Other transceivers" in 1954.⁸Included with "Commercial radio and TV communication equipment," etc. (code 3661400).⁹In 1954 an undetermined amount of electronic navigational aids, and electronic search and detection apparatus were included in product class 36617.¹⁰In 1954, included in code 3661598.¹¹Included in "Other transformers and reactors for electronic applications" (code 3661549).¹²In 1951 "Boosters" were included in code 3661598.¹³For 1958 value for "Recorder mechanisms only, tape wire and disc" is included in code 3661598.

**1958 CENSUS OF MANUFACTURES
PUBLICATION PROGRAM**

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

Final Industry Reports

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

Final Area Reports

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

Final Subject Reports

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I—SUMMARY STATISTICS

VOLUME II—INDUSTRY STATISTICS

VOLUME III—AREA STATISTICS

Bureau of the Census

WASHINGTON 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

June 1960

MC(P)36C-4

TELEPHONE AND TELEGRAPH EQUIPMENT INDUSTRY

(Industry Code 3664--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Telephone and Telegraph Equipment Industry amounted to \$734 million, an increase of 47 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing

establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed an increase of 31 percent from 1954 to 1958 to a total of 84.8 thousand employees in 1958.

Table 1.—GENERAL STATISTICS FOR THE TELEPHONE AND TELEGRAPH EQUIPMENT INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3664)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	84.8	64.6	+31
Payroll.....	Million dollars...	456.7	300.6	+52
Production workers:				
Number.....	Thousands.....	55.0	43.7	+26
Man-hours.....	Millions.....	106.6	84.6	+26
Wages.....	Million dollars...	272.7	184.1	+48
Value added by manufacture, unadjusted ².....	...do.....	746.3	497.8	+50
Value added by manufacture, adjusted ³.....	...do.....	734.3	500.2	+47
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	(4)	(4)	...
Value of shipments ⁴.....	...do.....	(4)	(4)	...
Capital expenditures, new.....	...do.....	(D)	22.1	...
Number of establishments with 20 or more employees ⁵	Number.....	55	55	...

(D) Withheld to avoid disclosing figures for individual companies.

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from interplant transfers from one establishment to another in the same industry classification.

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports \$35.00.

This Industry includes establishments engaged primarily in the manufacture of telephone and telegraph equipment, and parts specifically designed for inclusion in telephone and telegraph circuits. Establishments primarily engaged in manufacturing radio-telephone and radio-telegraph apparatus and supplies are classified in Industry 3661, and radio tubes in 3662. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments of Industry 3664 include extensive duplication resulting from the use of the products of some establishments of a company as materials by other establishments within the same company. These "interplant transfers" would appear twice in the total value of shipments, since both complete telephone and telegraph sets, as well as component parts, are classified in Industry 3664. A corresponding duplication exists in the total cost of materials. Totals are therefore not shown for cost of materials and value of shipments. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

In view of the duplication in value of shipments, the exact "primary product specialization ratio" for this industry can not be computed. Similarly, the exact "coverage ratio"

for Industry 3664 can not be computed. This "coverage ratio" measures the extent to which all shipments of primary products of an industry are "covered" by plants classified in that industry as distinguished from secondary producers elsewhere. Both the "specialization" and "coverage" ratios for Industry 3664 are estimated at over 90 percent.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE TELEPHONE AND TELEGRAPH EQUIPMENT INDUSTRY (S.I.C. 3664) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	84,769	456,675	54,991	106,593	272,671	746,264	734,280	(4)	(D)	55	64,663	497,829
New England.....	6,856	31,815	4,869	9,424	20,248	71,001	62,371		(D)	5	5,226	52,517
Middle Atlantic.....	21,111	115,092	12,961	25,227	66,821	175,335	161,373		7,792	14	16,881	130,206
North Central.....	49,986	272,997	32,214	62,499	162,285	441,754	448,648		(D)	25	38,993	285,144
Illinois.....	39,629	217,462	24,787	47,754	127,169	348,431	352,512			26,646	16	30,030	200,736
South.....	4,980	25,603	3,922	7,467	18,440	39,408	43,915		(D)	6	2,592	22,289
Pacific.....	1,836	11,168	1,025	1,976	4,877	18,766	17,973		1,178	5	970	7,671
California.....	1,836	11,168	1,025	1,976	4,877	18,766	17,973	1,178	5	970	7,671	

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from interplant transfers from one establishment to another in the same industry classification.

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF TELEPHONE AND TELEGRAPH EQUIPMENT PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Telephone and Telegraph Equipment Industry but also by establishments making these items as "secondary" products in other industries)

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3664---	Telephone and Telegraph Equipment, total.....	xxx	(¹)	xxx	(¹)
3664011	Telephone (wire) apparatus and equipment (including military)				
	Telephone switchboards (central office and PBX subscriber A and B, trunk and toll).....	xxx	62,459	xxx	55,108
3664021	Telephone switching equipment (central office and PBX dial systems).....	xxx	365,174	xxx	190,051
3664031	Telephone carrier equipment and repeater equipment (includes open-wire, and cable transmission).....	xxx	132,052	xxx	286,814
3664041	Telephone instrument sets (transmitters and receivers with or without dial, for subscriber use only).....	6,933,767	101,725	4,394,000	74,485
3664061	Other telephone apparatus and equipment, including components.....	xxx	367,664	xxx	293,127
3664071	Telegraph (wire) apparatus and equipment (includes military), including components.....	xxx	90,088	xxx	54,318
3664081	Microwave telephone (communication) equipment.....	xxx	16,326	xxx	(²)
3664085	Mobile telephone (communication) equipment.....	xxx	635	xxx	(³)
3664000	Telephone and telegraph equipment, not specified by kind.....	xxx	5,773	xxx	1,566

xxx Not applicable.

¹Omitted because of extensive amount of duplication in value of shipments. See text for more detailed explanation.

²In 1954, value for "Microwave telephone (communication) equipment" was included in code 3664031 "Telephone carrier equipment and repeater equipment."

³In 1954, value for "Mobile telephone (communication) equipment" was included in code 3664061 "Other telephone apparatus and equipment, including components."

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36D-1

X-RAY AND THERAPEUTIC APPARATUS INDUSTRY

(Industry Code 3693—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the X-Ray and Therapeutic Apparatus Industry shipped products valued at \$96 million, a decrease of 1 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 25 percent from 1954 to 1958 to a total of 5.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$59 million in 1958, an increase of 2 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE X-RAY AND THERAPEUTIC APPARATUS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3693)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.3	7.1	-25
Payroll.....	Million dollars...	30.9	32.6	-5
Production workers:				
Number.....	Thousands.....	3.0	4.6	-35
Man-hours.....	Millions.....	5.9	9.0	-34
Wages.....	Million dollars...	14.4	17.7	-19
Value added by manufacture, unadjusted ².....	...do.....	53.7	51.5	+4
Value added by manufacture, adjusted ³.....	...do.....	58.7	57.7	+2
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	36.0	40.7	-12
Value of shipments ⁵.....	...do.....	95.7	97.0	-1
Capital expenditures, new.....	...do.....	1.4	1.9	-26
Number of establishments with 20 or more employees ⁶	Number.....	34	35	-3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The X-Ray and Therapeutic Apparatus Industry includes establishments engaged primarily in the manufacture of electrotherapeutic and electromedical apparatus, X-ray apparatus and tubes, and lamps for infra-red and ultra-violet radiation. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in X-Ray and Therapeutic Apparatus Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the X-Ray and Therapeutic Apparatus Industry amounted to \$96 million. Of this total, \$61 million were products primary to the industry, \$11 million were products primary to other industries, and \$24 million were receipts for miscellaneous activities. The industry shipments of primary products represented 85 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 81 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$75 million of X-ray and therapeutic apparatus were shipped by all producers of these products. Of this total, \$61 million, or 82 percent, were shipped by plants classified in Industry 3693, X-Ray and Therapeutic Apparatus, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE X-RAY AND THERAPEUTIC APPARATUS INDUSTRY (S.I.C. CODE 3693) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,291	30,853	3,028	5,945	14,370	53,693	58,686	95,653	1,375	34	7,054	51,518
Northeast.....	1,276	6,597	775	1,536	3,340	11,198	12,638	20,007	276	14	2,283	16,936
North Central.....	3,205	18,187	1,842	3,591	9,144	34,034	34,784	52,894	963	14	3,582	25,709
Ohio.....	636	3,313	478	908	2,131	7,677	7,728	11,289	479	1	805	4,863
South and West.....	810	6,079	411	818	1,886	8,461	11,264	22,752	136	6	1,188	8,873

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF X-RAY AND THERAPEUTIC APPARATUS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the X-Ray and Therapeutic Apparatus Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (Number of generators)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3693---	X-ray and therapeutic apparatus.....	xxx	75,092	xxx	68,000
36931--	X-ray equipment and X-ray tubes.....	xxx	55,630	xxx	53,572
	Medical X-ray and gamma-ray equipment:				
3693112	Diagnostic X-ray equipment.....	4,546	24,660		
	Therapeutic equipment:				
3693113	X-ray.....				
3693114	Isotope.....				
	Dental X-ray equipment (including tubes):				
3693121	Complete units.....				
3693127	Parts and attachments (sold separately).....				
	Industrial X-ray and radiation equipment (except diffraction):				
3693132	Radiographic and fluoroscopic (X-ray and gamma).....	xxx	4,668		
3693136	Irradiation equipment (X-ray, gamma and beta).....	xxx	987		
	X-ray tubes (except dental):				
3693141	Diagnostic.....	xxx	5,704		
3693147	Therapeutic and industrial.....	xxx	2,007		
3693152	X-ray valves (rectifiers).....	xxx	1,133		
3693161	Medical, dental, and industrial X-ray and gamma-ray accessories (excluding radiation detectors).....	xxx	1,530		
3693191	All other X-ray equipment, including X-ray diffraction.....	xxx	7,931		
3693100	X-ray equipment and X-ray tubes not specified by kind.....	xxx	767		
36932--	Electro-therapeutic apparatus (including infrared and ultraviolet).....	xxx	17,396	xxx	14,428
3693212	Ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately).....	xxx	1,885	xxx	1,161
3693232	Electro-therapeutic apparatus (including electro diathermic)...	xxx	5,583	xxx	2,991
3693262	Electromedical apparatus (include cardiographs).....	xxx	8,779	xxx	8,368
3693200	Electro-therapeutic apparatus, including infrared and ultraviolet, not specified by kind.....	xxx	1,149	xxx	1,908
3693000	X-ray and therapeutic apparatus, not specified by kind.....	xxx	2,066	(NA)	(NA)

xxx Not applicable.

NA Not available.

¹For 1954, includes an undetermined amount of dental X-ray equipment, parts, and attachments, and dental X-ray components.

²Not directly comparable to 1958 data. In 1954, an undetermined amount of industrial X-ray components were included with medical X-ray and gamma-ray equipment.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-36D-2

STORAGE BATTERIES INDUSTRY

(Industry Code 3691--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Storage Batteries Industry shipped products valued at \$369 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 14.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$150 million in 1958, an increase of 16 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE STORAGE BATTERIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3691)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	14.9	15.7	-5
Payroll.....	Million dollars...	77.0	66.9	+15
Production workers:				
Number.....	Thousands.....	11.8	11.9	-1
Man-hours.....	Millions.....	23.4	23.2	+1
Wages.....	Million dollars...	55.5	46.4	+20
Value added by manufacture, unadjusted ².....	...do.....	156.8	127.5	+23
Value added by manufacture, adjusted ³.....	...do.....	150.1	128.9	+16
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	211.8	215.9	-2
Value of shipments ⁵.....	...do.....	369.0	343.7	+7
Capital expenditures, new.....	...do.....	7.3	10.5	-30
Number of establishments with 20 or more employees ⁶	Number.....	106	101	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

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The Storage Batteries Industry includes establishments engaged primarily in the manufacture of storage batteries. The more important types of storage batteries are starting, lighting and ignition (SLI), motive power, and communication storage batteries (radio, telephone, telegraph and railroad signalling). This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Storage Batteries Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Storage Batteries Industry amounted to \$369 million. Of this total, \$360 million were products primary to the industry, \$2 million were products primary to other industries, and \$7 million were receipts for miscellaneous activities. The industry shipments of primary products represented 99 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 100 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$361 million of storage batteries were shipped by all producers of these products. Of this total, \$360 million, or 99.7 percent, were shipped by plants classified in Industry 3691, Storage Batteries, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE STORAGE BATTERIES INDUSTRY (SIC CODE 3691), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	14,923	76,957	11,786	23,362	55,455	156,843	150,058	368,985	7,326	106	15,670	127,503
New England.....	499	2,246	379	727	1,691	5,390	5,723	12,995	198	6	594	4,551
Middle Atlantic.....	5,238	29,213	3,843	7,761	18,188	48,370	46,260	105,459	1,793	18	6,228	45,864
New York.....	1,011	5,124	752	1,563	3,512	9,481	9,168	22,336	249	5	1,269	9,160
New Jersey.....	1,556	7,901	1,115	2,195	5,468	15,428	14,300	31,997	581	4	2,003	16,694
Pennsylvania.....	2,671	16,188	1,976	4,003	9,208	23,461	22,792	51,126	963	9	2,956	20,009
North Central.....	5,405	27,117	4,496	8,695	21,631	58,427	55,901	138,594	2,554	33	5,166	48,189
Ohio.....	819	4,248	698	1,367	3,747	8,759	8,511	20,390	531	5	1,215	9,577
Indiana.....	1,670	9,056	1,390	2,690	7,167	16,521	15,697	35,476	690	4	1,453	14,342
Illinois.....	872	4,324	683	1,306	3,028	12,932	12,630	28,646	442	7	1,045	12,801
Michigan.....	446	2,276	367	742	1,827	4,551	4,412	12,661	136	3	575	3,512
South.....	2,029	9,562	1,664	3,362	7,399	24,579	23,941	60,769	1,864	25	2,083	17,162
Texas.....	704	3,252	578	1,171	2,561	7,806	7,446	18,954	311	7	693	5,617
West.....	1,752	8,819	1,404	2,817	6,546	20,077	18,233	51,168	917	24	1,597	11,737

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 1.--QUANTITY AND VALUE OF STORAGE BATTERIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Storage Batteries Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3691---	Storage batteries.....	xxx	361,407	xxx	336,118
36911--	Storage batteries, SLI type.....	xxx	278,340	xxx	258,840
	Motor vehicle type storage batteries (including tractor, aircraft, locomotive, and marine) starting, lighting, and ignition types, complete units:				
	Automobile, truck, farm tractor, and bus:				
	Automotive type: ¹				
	For original equipment:				
3691112	6 volt.....	413	3,311	30,351	239,427
3691115	12 volt.....	5,450	48,798		
	For replacement:				
3691122	6 volt.....	17,471	127,952		
3691125	12 volt.....	7,419	74,289		
	Heavy duty transport, motor coach and bus, and Diesel starting batteries (excluding marine)				
	For original equipment:				
3691132	6 volt and 12 volt-quantity reported.....	76	1,657	354	7,977
3691135	6 volt and 12 volt-quantity not reported.....	xxx	180		
	For replacement:				
3691142	6 volt.....	273	3,983		
3691145	12 volt.....	110	3,106		
3691151	Aircraft.....	82	2,649	xxx	3,986
3691171	Marine.....	35	47,451	xxx	1,198
3691198	Other starting, lighting, and ignition type batteries (including motorcycle).....	xxx	7,670	xxx	6,252
36912--	Storage batteries other than SLI type.....	xxx	68,962	xxx	65,300
	Motive power type				
3691211	Industrial truck type.....	xxx	18,074	xxx	18,833
3691219	Other motive power type storage batteries (including mining, locomotive, and railway).....	xxx	888	xxx	2,038
3691241	Farm and emergency lighting storage batteries.....	...	(2)	xxx	1,042
3691251	Communication storage batteries (include radio station, telephone and telegraph and railroad signalling).....	xxx	15,626	xxx	10,801
3691261	Railway diesel starting batteries.....	...	(2)	xxx	4,497
3691271	Railway air-conditioning and car lighting batteries.....	xxx	3,660	xxx	4,839
3691298	Other storage batteries.....	xxx	20,714	xxx	23,250
3691311	Parts and supplies for storage batteries.....	...	10,092	xxx	11,978
3691000	Storage batteries, not specified by kind.....	xxx	4,013	(NA)	(NA)

NA Not available.

xxx Not applicable.

¹All types designed primarily to fit passenger cars, regardless of application. Many of these batteries are used in commercial vehicles and light trucks.

²For 1958 included with "other storage batteries (code 3691298)."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-36D-3

PRIMARY BATTERIES INDUSTRY

(Industry Code 3692--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Primary Batteries Industry shipped products valued at \$138 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 25 percent from 1954 to 1958 to a total of 8.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$76 million in 1958, an increase of 29 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE PRIMARY BATTERIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3692)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.1	10.8	-25
Payroll.....	Million dollars...	34.0	36.6	-7
Production workers:				
Number.....	Thousands.....	6.5	8.9	-27
Man-hours.....	Millions.....	13.3	16.8	-21
Wages.....	Million dollars...	24.5	27.4	-11
Value added by manufacture, unadjusted ²	do.....	77.9	62.4	+25
Value added by manufacture, adjusted ³	do.....	75.5	58.5	+29
Cost of materials, fuel, electricity, and contract work ⁴	do.....	59.5	61.1	-3
Value of shipments ⁵	do.....	138.2	123.8	+12
Capital expenditures, new.....	do.....	2.5	2.1	+10
Number of establishments with 20 or more employees ⁶	Number.....	29	33	-12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Primary Batteries Industry includes establishments engaged primarily in the manufacture of dry and wet cell primary batteries. Important products of this industry are batteries for flashlights, hearing aids, lanterns, and portable and farm radios. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Primary Batteries Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Primary Batteries Industry amounted to \$138 million. Of this total, \$133 million were products primary to the industry, \$1 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 99 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products the industry shipped by all producers. The latter figures, appearing in table 3, indicates that \$136 million of primary batteries, dry and wet were shipped by all producers of these products. Of this total, \$133 million, or 98 percent, were shipped by plants classified in Industry 3692, Primary Batteries, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE PRIMARY BATTERIES INDUSTRY (S.I.C. CODE 3692) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	8,096	34,025	6,498	13,258	24,455	77,947	75,456	138,215	2,343	29	10,773	62,388
East North Central.....	4,268	18,206	3,358	7,114	12,672	36,277	33,976	66,277	698	12	5,052	28,070
Ohio.....	1,994	10,057	1,392	3,172	6,211	17,445	17,705	34,866	396	4	2,235	8,646
South and West.....	1,683	6,973	1,436	2,845	5,516	19,440	19,828	36,224	1,276	6	1,330	8,241

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF PRIMARY BATTERIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Primary Batteries Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers					
		1958			1954		
		Quantity		Value \$1,000	Quantity		Value \$1,000
		Thousands of cells	Thousands of units		Thousands of cells	Thousands of units	
3692----	Primary batteries (dry and wet) total ¹	xxx	xxx	135,679	xxx	xxx	117,926
3692011	General purpose (6 inch), 1.5 volt dry cells, single and multiple unit (except mercury).....	10,530	8,355	5,953	12,917	9,723	4,801
	Flashlight (except mercury):						
3692021	Standard.....	xxx	363,513	34,311	xxx	354,330	23,348
3692024	Medium and penlight.....	xxx	89,241	7,259	xxx	91,4	4,602
3692031	Railroad lantern type (except mercury).....	54,139	12,758	7,784	33,562	8,438	4,079
3692042	Hearing aid A and B (except mercury).....	24,311	9,424	1,454	122,449	40,346	9,962
	A, B, and C (other than hearing aid) (except mercury):						
3692051	Portable radio types.....	339,412	22,586	15,732	348,543	12,419	12,380
3692054	Farm radio types (include farm pack and other farm types).....	49,803	911	3,586	123,439	1,921	7,436
3692059	Other types.....	73,098	4,431	2,566	29,453	1,521	1,663
3692062	Other dry cell primary batteries (except military type) including mercury batteries, all types.....	643,124	73,463	34,095	xxx	xxx	6,238
3692074	Dry cell primary batteries (military type) (except mercury).....				xxx	xxx	32,847
3692081	Wet cell primary batteries.....	(NA)	(NA)	6,252	9,832	1,163	3,345
3692085	Parts and supplies for primary batteries.....	xxx	xxx	14,807	xxx	xxx	7,225
3692000	Primary batteries, not specified by kind.....	xxx	xxx	1,880	...	...	...

NA Not available.

xxx Not applicable.

¹Data also shown for 1958 in Facts For Industry Series BDSAF-371A, Dry Cell Batteries.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

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U. S. DEPARTMENT OF COMMERCE



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

December 1959

MC(P)-37A-1

TRUCK TRAILER INDUSTRY

(Industry Code 3715--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Truck Trailer Industry shipped products valued at \$334.9 million, an increase of 6 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 15.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$126.7 million in 1958, an increase of 12 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE TRUCK TRAILER INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3715)

Item ¹	Unit of Quantity	1958 ²	1954 ²	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.7	16.4	-4
Payroll.....	Million dollars...	78.1	72.9	+7
Production workers:				
Number.....	Thousands.....	12.1	13.0	-7
Man-hours.....	Millions.....	24.6	26.2	-6
Wages.....	Million dollars...	55.4	52.3	+6
Value added by manufacture, unadjusted.....	.....do.....	126.7	113.4	+12
Value added by manufacture, adjusted.....	.....do.....	131.2	115.7	+13
Cost of materials, fuel, electricity, and contract work.....	.....do.....	206.3	200.9	+3
Value of shipments.....	.....do.....	334.9	316.8	+6
Capital expenditures, new.....	.....do.....	4.6	2.8	+66
Number of establishments with 20 or more employees.....	Number.....	93	78	+19

¹For definition of items see Text.

²The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

³Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 350-400 preliminary Census of Manufactures reports, \$35.00.

This Industry includes establishments engaged primarily in the manufacture of truck trailers. Establishments primarily engaged in manufacturing trailer bodies are classified in Industry 3713, Truck and Bus Bodies. Those primarily engaged in manufacturing passenger car trailers are classified in Industry 3716, Automobile Trailers. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Truck Trailer Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Truck Trailer Industry amounted to \$334.9 million. Of this total, \$264.4 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$284 million of truck trailers and truck trailer chassis were shipped by all producers of these products. Of this total, \$264.4 million, or 93 percent were shipped by plants classified in Industry 3715, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE TRUCK TRAILER INDUSTRY (S.I.C. CODE 3715), BY REGIONS AND STATES: 1958 AND 1954
(For explanation of column captions see Text)

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	No. of establishments with 20 or more employees ²	All employees, number	Value added by manufacture unadjusted (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted (\$1,000)	Adjusted (\$1,000)					
UNITED STATES, TOTAL.	15,661	78,104	12,096	24,640	55,376	126,689	131,247	334,868	4,635	93	16,381	113,469
Northeast.....	1,782	9,323	1,437	3,065	6,958	19,249	21,855	53,081	507	15	1,500	11,125
East North Central.....	4,514	22,210	3,468	6,740	16,108	35,372	34,322	93,525	1,534	18	6,665	45,397
Ohio.....	2,648	13,093	2,131	4,021	9,857	20,513	19,818	54,514	735	8	3,748	26,323
West North Central.....	2,203	11,139	1,705	3,334	7,573	18,815	18,523	42,921	419	14	2,872	18,591
Missouri.....	990	4,766	788	1,463	3,407	6,801	7,047	15,464	116	6	2,236	14,017
South Atlantic.....	1,212	4,916	952	1,952	3,415	6,670	7,507	19,133	198	9	763	3,961
East South Central.....	1,596	6,762	1,261	2,575	4,972	9,428	10,178	30,156	483	9	1,322	7,659
Alabama.....	1,116	4,813	865	1,795	3,522	7,689	7,665	23,009	354	6	467	2,402
West South Central.....	1,636	7,709	1,272	2,756	6,420	13,965	13,836	37,120	249	11	1,048	7,038
Texas.....	1,159	5,288	863	1,810	3,537	10,520	10,161	27,582	177	7	659	4,214
Mountain.....	344	1,855	258	524	1,165	3,975	4,128	7,817	64	3	237	1,609
Pacific.....	2,374	14,190	1,743	3,694	9,765	19,215	20,898	51,115	1,181	14	1,972	18,086
California.....	1,894	11,548	1,393	2,926	7,793	14,941	15,707	39,613	1,064	8	1,620	15,412

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies; or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF TRUCK TRAILERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Truck Trailer Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3715---	Truck trailers, total.....	xxx	283,988	xxx	262,012
	Truck trailers (5 ton capacity and over) as reported in Census of Manufactures.....	xxx	270,511	xxx	240,342
	Truck trailers (5 tons capacity and over) as reported on 1958 Census Form M37L.....	51,751	280,588	54,537	245,227
	Complete trailers, total ¹	48,507	272,226	52,243	238,786
	Vans, total.....	26,198	159,249	25,732	130,887
	Insulated and refrigerated:				
3715012	Steel.....	376	2,918	831	4,436
3715013	Aluminum.....	3,155	24,582	3,419	21,911
	Semi-insulated:				
3715014	Steel.....	124	814	(2)	(2)
3715015	Aluminum.....	394	2,582		
	Furniture:				
3715016	Steel.....	1,325	5,793	1,061	3,684
3715017	Aluminum.....	160	738	80	335
	All other closed-top vans:				
3715018	Steel.....	6,189	28,864	6,733	30,828
3715019	Aluminum.....	12,122	73,112	11,422	60,187
	Open-top:				
3715020	Steel.....	1,016	4,690	1,070	4,080
3715021	Aluminum.....	1,357	15,156	1,116	5,426
	Tanks, total.....	5,635	47,640	6,087	50,019
	Non- and low-pressure:				
	Petroleum:				
3715022	Carbon and alloy steel (except stainless).....	2,329	15,158	5,433	44,869
3715023	Stainless steel.....	227	2,550		
3715024	Aluminum.....	1,454	13,339		
3715025	Chemical, food, sanitary, and fluid solids.....	545	6,009	654	5,150
3715026	All other (including aircraft refuelers and cement bulkheads).....	704	6,155		
3715027	High pressure (LPG, chemical, etc.).....	376	4,429		
	Pole, pipe, and logging, total.....	927	2,577	1,396	3,629
3715028	Single axle.....	318	424	599	851
3715029	Tandem axle.....	609	2,153	797	2,778
	Platforms, total.....	8,868	52,078	7,006	25,052
3715030	Racks, live stock and stake.....	1,442	6,556	888	3,259
3715031	Grain bodies, all types.....	1,073	3,718	785	3,004
3715032	Platforms (flats), all types.....	6,353	21,804	5,333	18,789
3715033	Low-bed heavy haulers.....	2,301	9,779	3,090	11,123
3715034	Dump trailers.....	2,548	11,401	996	4,113
3715035	All other trailers ²	2,030	9,502	7,936	13,963
3715051	Trailer chassis only, for sale separately.....	3,244	8,362	2,294	6,441
3715055	Truck trailers and truck trailer chassis with axles rated less than 10,000 pounds.....	6,230	13,477	17,811	21,669

¹For 1958, complete truck trailers include truck trailers produced on purchased chassis. For 1954, truck trailers produced on purchased chassis were excluded from M45F (Now M37L) survey.

²Semi-insulated steel and aluminum vans were included with all other closed top vans in 1954.

³Includes small capacity trailers of special construction of Defense Department, as well as off-highway, auto transport, public utility trailers, converter dollies, and hoppers.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC (P)-37A-2

AUTOMOBILE TRAILERS INDUSTRY

(Industry Code 3716--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Automobile Trailers Industry shipped products valued at \$507 million, an increase of 114 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 86 percent from 1954 to 1958 to a total of 20.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$146 million in 1958, an increase of 112 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE AUTOMOBILE TRAILERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3716)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	20.7	11.1	+86
Payroll.....	Million dollars...	85.4	43.9	+95
Production workers:				
Number.....	Thousands.....	17.6	9.5	+85
Man-hours.....	Millions.....	33.8	18.6	+82
Wages.....	Million dollars...	64.7	33.0	+96
Value added by manufacture, unadjusted ².....	..do.....	145.9	68.8	+112
Value added by manufacture, adjusted ³.....	..do.....	145.9	69.2	+111
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	359.5	166.6	+116
Value of shipments.....	..do.....	506.8	236.4	+114
Capital expenditures, new.....	..do.....	8.1	2.4	+237
Number of establishments with 20 or more employees ⁵	Number.....	235	125	+88

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Automobile Trailers Industry includes establishments engaged primarily in the manufacture of trailers for attachment to passenger cars, but not engaged in manufacturing complete automobiles. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Automobile Trailers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Automobile Trailers Industry amounted to \$506.8 million. Of this total, \$481.7 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped

by all producers. The latter figure, appearing in table 3, indicates that \$488.4 million of Automobile Trailers were shipped by all producers of these products. Of this total, \$481.7 million, or 99 percent, were shipped by plants classified in Industry 3716, Automobile Trailers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE AUTOMOBILE TRAILERS INDUSTRY (S.I.C. CODE 3716) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	20,700	85,409	17,604	33,838	64,670	145,878	145,888	506,770	8,064	235	11,131	68,784
Northeast.....	539	1,924	468	920	1,496	5,572	5,790	13,649	255	8	210	1,747
North Central and South	15,613	64,555	13,168	25,300	48,156	110,714	110,388	394,350	5,832	165	9,003	54,712
Ohio.....	500	2,277	408	827	1,638	4,171	4,191	11,366	184	7	371	2,075
Illinois.....	330	1,404	258	505	1,059	2,105	2,125	7,541	149	7	532	3,860
Wisconsin.....	699	2,416	570	1,265	1,886	3,299	3,412	12,574	173	5	289	2,664
Missouri.....	273	977	234	437	758	1,446	1,528	5,170	139	4	207	1,140
Nebraska.....	416	1,549	364	742	1,189	4,774	5,022	11,429	758	5	159	876
Mountain.....	604	2,016	503	841	1,584	3,054	3,186	9,672	414	9	64	537
Pacific.....	3,944	16,914	3,465	6,777	13,434	26,538	26,524	89,105	1,563	53	1,851	11,787
California.....	3,692	16,088	3,237	6,328	12,755	25,311	25,308	84,775	1,462	50	1,828	11,637

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF AUTOMOBILE TRAILERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Automobile Trailers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3716---	Automobile Trailers, total.....	xxx	488,414	xxx	231,525
	Complete units:				
3716011	Trailer coaches, housing type.....	134,846	419,182	72,122	212,686
3716013	Boat trailers.....	177,861	19,878	xxx	9,982
3716015	Other automobile trailers (commercial display, utility, camp, etc.).....	25,107	11,888		
3716051	Chassis for automobile trailers, sold separately.....	54,371	10,765	xxx	4,633
3716000	Automobile trailers, not specified by kind.....	xxx	26,701	xxx	4,223

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-37A-3

TRUCK AND BUS BODIES INDUSTRY

(Industry Code 3713--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Truck and Bus Bodies Industry shipped products valued at \$305 million, an increase of 25 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 2 percent from 1954 to 1958 to a total of 19.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$144 million in 1958, an increase of 18 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE TRUCK AND BUS BODIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3713)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	19.9	19.6	+2
Payroll.....	Million dollars...	90.7	80.4	+11
Production workers:				
Number.....	Thousands.....	15.8	15.9	-1
Man-hours.....	Millions.....	31.2	32.0	-2
Wages.....	Million dollars...	64.8	56.2	+11
Value added by manufacture, unadjusted ².....	.....do.....	141.9	117.1	+20
Value added by manufacture, adjusted ³.....	.....do.....	143.8	121.8	+18
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	161.7	127.5	+26
Value of shipments ⁵.....	.....do.....	305.2	244.7	+25
Capital expenditures, new.....	.....do.....	3.6	3.7	-3
Number of establishments with 20 or more employees ⁶	Number.....	184	172	+7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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This Industry includes establishments engaged primarily in the manufacture of truck and bus bodies, for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in Industry 3711, Motor Vehicles, and stamped body parts for trucks and busses in Industry 3462, Automobile Stampings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Truck and Bus Bodies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Truck and Bus Bodies Industry amounted to \$305 million. Of this total, \$223 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$273 million of Truck and Bus Bodies were shipped by all producers of these products. Of this total, \$223 million, or 82 percent, were shipped by plants classified in Industry 3713, Truck and Bus Bodies while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE TRUCK AND BUS BODIES INDUSTRY (S.I.C. CODE 3713) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	19,851	90,687	15,815	31,165	64,802	141,880	143,771	305,209	3,597	184	19,618	117,131
New England.....	340	1,454	270	563	1,104	1,703	1,787	4,585	45	5	452	2,210
Middle Atlantic.....	3,809	18,123	3,184	6,323	13,502	29,074	29,795	54,749	650	37	3,843	23,128
New York.....	1,821	8,201	1,554	3,128	6,542	14,423	14,739	25,963	250	15	1,898	10,986
New Jersey.....	637	2,294	529	1,115	2,281	5,396	6,002	10,117	58	7	607	4,810
Pennsylvania.....	1,351	6,628	1,101	2,080	4,679	9,255	9,054	18,669	342	15	1,338	7,331
North Central and South.	13,757	61,573	10,884	21,410	43,739	96,345	96,869	213,442	2,478	116	13,741	81,714
Ohio.....	4,137	20,388	3,132	6,291	14,352	31,017	31,819	66,631	830	17	4,160	28,913
Illinois.....	980	4,638	744	1,532	2,909	7,186	5,848	17,094	133	12	1,038	7,061
Michigan.....	261	1,368	202	478	940	1,598	1,827	4,435	31	6	325	2,321
Wisconsin.....	1,470	7,413	1,228	2,588	5,255	11,258	11,437	21,590	179	8	1,445	7,333
Iowa.....	296	1,199	247	504	996	1,863	1,951	3,785	23	3	287	1,406
Missouri.....	894	4,552	686	1,427	3,158	6,862	6,723	14,024	82	10	1,016	6,738
Georgia.....	700	2,238	602	1,105	1,689	3,030	3,117	9,263	193	4	459	2,138
Texas.....	436	1,655	332	740	1,155	3,610	4,089	6,690	174	7	642	4,433
Mountain.....	180	804	146	269	592	1,067	1,124	2,250	33	3	151	801
Pacific.....	1,765	8,733	1,331	2,600	5,865	13,691	14,196	30,183	391	23	1,430	9,276
California.....	1,589	7,841	1,200	2,309	5,202	12,379	13,119	26,196	351	22	1,117	7,835

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF TRUCK AND BUS BODIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Truck and Bus Bodies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Production	Total shipments including interplant transfer			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3713---	Truck and bus bodies, total.....	xxx	273,438	xxx	*216,660
37131--	Truck and bus bodies for sale separately ¹	xxx	195,818	xxx	*176,815
3713112	Sold to motor vehicle manufacturers: Truck (platform, stake, van, tank, dump, etc.) and bus.....	xxx	14,543	(NA)	(NA)
	Sold to other than motor vehicle manufacturers: Truck:				
3713131	Van.....	15,585	22,866	15,304	21,856
3713132	Panel, sedan delivery, pick-up.....	6,310	7,646	18,694	16,126
3713133	Dump.....	21,388	18,079	*37,456	*20,063
3713134	Stake and platform.....	19,483	8,087	*23,479	*8,426
3713141	Other including tank.....	xxx	48,628	xxx	54,795
3713151	Bus.....	20,143	42,926	19,981	32,741
3713100	Truck and bus bodies for sale separately, not specified by kind ²	xxx	23,043	xxx	22,808
37132--	Vehicles, except passenger cars, produced on purchased chassis, including value of chassis.....	xxx	59,463	xxx	39,845
3713211	Ambulances.....	1,134	7,675	1,498	8,717
3713221	Hearse and undertakers' wagons.....	1,170	9,438	795	4,542
3713231	Fire department vehicles ³	1,102	11,341	1,006	8,351
3713251	Motor busses, including military, but excluding trolley busses.....	940	5,255	460	4,101
3713298	All other highway vehicles, including trucks (platform, stake, van, tank, dump, etc.), street cleaning apparatus, rotary and blower type snow plows, pick-up sweepers, non-combat amphibious vehicles, etc.....	xxx	18,427	xxx	14,134
3713200	Vehicles, except passenger cars produced on purchased chassis, (including value of chassis)not specified by kind.....	xxx	7,327	xxx	xxx
3713000	Truck and bus bodies, not specified by kind.....	xxx	18,157	xxx	xxx

xxx Not applicable. *Revised.

NA Not available.

¹Truck and bus bodies built by garages, service stations and other establishments primarily engaged in non-manufacturing activities are excluded from both 1958 and 1954 data. It is believed that a substantial number of truck bodies are built by such nonmanufacturing establishments.

²Includes shipments and interplant transfers to motor vehicle manufacturers.

³Separate figures are shown for fire department vehicles produced on purchased chassis (code 3713231) and for fire department vehicles produced on chassis of own manufacture (code 3717611). A small number of fire department vehicles, however, are produced on a chassis furnished by customers. Figures for such vehicles are included in the value of bodies for sale to other than motor vehicle manufacturers (code 3713141).

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-37A-4

MOTOR VEHICLES AND PARTS INDUSTRY

(Census Code 3717; SIC Codes 3711, 3712, and 3714--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, value added by manufacture in the Motor Vehicles and Parts Industry amounted to \$6,276 million in 1958, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958. Average employment in this industry showed a decrease of 19 percent from 1954 to 1958 to a total of 529.2 thousand employees in 1958.

The Motor Vehicles and Parts Industry comprises establishments primarily engaged in manufacturing or assembling passenger automobiles, trucks, commercial cars and busses (except trackless trolleys, Industry 3742) and special purpose motor vehicles such as ambulances, fire engines, taxicabs, scout cars, personnel carriers, amphibian motor vehicles, and selected parts and accessories for motor vehicles. Establishments primarily engaged in manufacturing motor vehicles on purchased chassis (ambulances, fire engines, etc.) are classified in Industry 3713, Truck and Bus Bodies.

In this report, based on the 1958 Census of Manufactures, as in 1954, the three Standard

Industrial Classification Industries (3711, 3712, and 3714) have been combined because of a major problem of defining the reporting unit in terms of these industries. This difficulty arises from the fact that many large establishments have integrated operations which include the production of parts or bodies and the assembly of complete vehicles at the same location.

Included in Industry 3717 are such parts as passenger-car bodies, motor vehicle engines (except Diesel), brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, tops (except stamped metal), universal joints, wheel rims, windshield frames, and automobile accessories, not elsewhere classified. A considerable number of components, parts and accessories for motor vehicles are not classified in Industry 3717 but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the use to which it is put. Among the more important of these are automotive hardware, Industry 3429, Hardware, N.E.C.; automotive stampings, Industry 3463, Metal Stampings; Diesel and semi-Diesel engines, Industry 3519, Internal Combustion Engines; sealed beam and other electric lamps, Industry 3651, Electric Lamps (Bulbs); motor vehicle lighting fixtures, Industry 3471, Lighting Fixtures; bearings, Industry 3566, Power-Transmission Equipment; tire and inner tubes,



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Industry 3011, Tires and Inner Tubes; automobile glass, Industry 3211, Flat Glass; ignition equipments such as spark plugs, distributors, switches, ignition coils, generators, cranks, motors, etc., Industry 3641, Engine Electrical Equipment; storage batteries, Industry 3691, Storage Batteries; automobile radios, Industry 3661, Radios and Related Products; and carburetors and pistons, Industry 3599, Machine Shops. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS AND COST OF MATERIALS

Data on cost of materials and value of shipments for the Motor Vehicles and Parts Industry are not shown because of the extensive duplication included in these data. This is caused by the transfer of parts between plants of the same company and by the shipments of parts from independent plants to motor-vehicle companies for assembly into completed vehicles. Thus, these parts are to a large extent duplicated in both value of shipments and cost of materials. This duplication, however, is excluded from the data for value added by manufacture.

In view of this duplication in the value of shipments, the exact "primary product specialization ratio" for this industry cannot be computed. This ratio describes the extent to which plants classified in an industry "specialize" in making products described as primary to the industry.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 1.--GENERAL STATISTICS FOR THE MOTOR VEHICLES AND PARTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Census Code 3717; SIC Codes 3711, 3712, and 3714)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	529.2	649.3	-19
Payroll.....	Million dollars...	3,088.7	3,214.8	-4
Production workers:				
Number.....	Thousands.....	420.4	545.4	-23
Man-hours.....	Millions.....	852.0	1,120.9	-26
Wages.....	Million dollars...	2,315.7	2,569.4	-10
Value added by manufacture, unadjusted ²	do.....	6,336.4	5,901.4	+7
Value added by manufacture, adjusted ³	do.....	6,275.9	6,111.6	+3
Cost of materials, fuel, electricity, and contract work.....	do.....	(4)	(4)	-
Value of shipments.....	do.....	(4)	(4)	-
Capital expenditures, new.....	do.....	308.6	722.2	-57
Number of establishments with 20 or more employees ⁴	Number.....	645	649	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 2.--GENERAL STATISTICS FOR THE MOTOR VEHICLES AND PARTS INDUSTRY (CENSUS CODE 3717) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958								1954			
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees ⁴	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	529,225	3,088,682	420,377	831,955	2,315,714	6,336,380	6,275,853	308,596	645	649,274	6,111,554	
New England.....	4,998	25,917	3,828	7,727	18,004	46,046	42,528	937	19	7,200	84,640	
Massachusetts.....	2,513	14,049	1,834	3,877	9,478	26,531	22,044	377	12	4,997	68,060	
Middle Atlantic.....	62,351	365,966	48,945	96,975	273,884	764,391	732,138	23,832	71	71,655	731,789	
New York.....	32,810	188,654	25,662	51,386	141,878	363,990	347,509	14,490	33	44,236	385,873	
New Jersey.....	13,554	79,444	10,950	21,335	59,850	227,486	222,450	4,594	14	13,552	194,986	
Pennsylvania.....	15,987	97,868	12,333	24,254	72,156	172,915	162,179	4,748	24	13,866	150,929	
North Central and South	440,527	2,580,817	350,951	695,358	1,940,085	5,258,990	5,236,354	(5)	269,801	490	547,817	5,074,251
Ohio.....	74,249	458,380	58,968	122,888	344,514	846,550	866,239		84,902	95	72,475	634,086
Illinois.....	20,536	116,640	16,133	32,984	84,706	232,491	238,854		8,798	56	16,467	166,790
Michigan.....	299,207	1,364,533	181,588	359,155	1,024,155	2,600,416	2,564,358		98,240	177	341,905	2,983,120
Wisconsin.....	24,279	134,168	20,880	41,227	111,112	289,928	285,121		9,008	24	19,118	184,621
Iowa.....	520	2,315	440	816	1,799	4,139	3,596	88	6	669	7,612	
Missouri.....	15,529	80,202	13,188	23,921	63,417	295,625	293,765	16,948	15	41,579	226,606	
North Carolina.....	746	2,281	624	703	1,669	5,781	5,719	(D)	3	584	3,818	
Alabama.....	514	2,345	425	909	1,719	4,755	4,650	107	3	472	3,017	
West.....	21,349	115,982	16,653	31,895	83,741	266,953	264,833	14,026	65	22,599	220,870	
California.....	19,782	107,826	15,558	29,753	78,417	254,331	250,354	13,399	60	21,010	211,550	

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Except for "Number of establishment with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁵Omitted due to extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 3.--QUANTITY AND VALUE OF MOTOR VEHICLE AND PARTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Motor Vehicles and Parts Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3717---	Motor vehicles and parts, total.....	xxx	(¹)	xxx	(¹)
37171--	Passenger cars, knocked down or assembled and chassis for sale separately.....	xxx	9,217,694	xxx	9,471,779
3717111	Complete vehicles, knocked-down or assembled ²	4,204,203	9,212,591	5,528,103	9,466,599
3717251	Chassis for sale separately.....	xxx	5,103	xxx	5,180
37172--	Truck tractors, truck chassis and trucks.....	xxx	1,931,057	xxx	1,732,114
	Trucks, truck tractors, and truck chassis knocked-down or assembled, including trucks such as pick-up, sedan delivery, panel or other commercial cars made on passenger car chassis of own manufacture ³ :				
	Basic chassis, gross vehicle weight ⁴ :				
3717201	6,000 pounds and less.....	583,045	754,931	705,541	728,323
3717203	6,001 to 10,000 pounds.....				
3717213	10,001 to 14,000 pounds.....	64,560	117,417	{ 50,896	71,295
3717214	14,001 to 16,000 pounds.....				
3717215	16,001 to 19,500 pounds.....	79,696	154,040	139,707	193,039
3717216	19,501 to 26,000 pounds.....	44,738	142,189	47,264	114,540
3717217	26,001 to 33,000 pounds.....	58,515	429,376	40,539	110,217
3717218	Over 33,000 pounds.....				
3717231	Bodies and other equipment billed with basic chassis ⁴	xxx	318,276	xxx	259,858
3717251	Other highway vehicles on chassis of own manufacture, including noncombat amphibious vehicles.....	xxx	14,828	xxx	58,383
3717311	Motor busses, including military, but excluding trolley busses (including all coaches or coach chassis delivered to common carriers or franchised operators, for city intercity, charter, hire or sight-seeing use) including integral type school coaches, but excluding other types of school busses or school bus chassis ⁵	3,311	81,018	4,009	78,634
3717511	Replacement parts and accessories for passenger cars, trucks, busses, and trailers ⁶	xxx	1,867,316	xxx	*1,641,229
3717611	Fire department vehicles ⁷	1,262	18,198	1,839	26,895
3717711	Combat vehicles (wheeled tactical vehicles or carriers).....	(7)	(7)	(7)	(7)
3717000	Motor vehicle and parts, not specified by kind.....	xxx	17,392	xxx	(NA)

xxx Not applicable.

*Revised.

NA Not available.

¹Total value of shipments figure omitted because of extensive duplication resulting from the use of products of certain establishments as materials by others (see text for more detailed explanation).

²Includes station wagons, ambulances, hearses, and taxicabs if produced on passenger car chassis. Value includes extra equipment billed with vehicles.

³Includes trucks such as pick-up, sedan delivery, panel, or other commercial cars made on passenger car chassis if these chassis were of own manufacture. Includes station wagons, hearses, and taxicabs if produced on truck chassis. Includes all truck chassis whether or not to be used for transportation of property, such as fire apparatus, street sprinklers, school busses, ambulances, etc. Excludes specialized road construction machinery and off-the-highway trucks.

⁴The sum of values reported for basic chassis and bodies (codes 3717211 through 3717219) and bodies and other equipment billed with basic chassis (code 3717231) represents the total value received from the sale of trucks, truck tractors, and truck chassis. Amounts reported for basic chassis values of the basic chassis, based on averages wholesale prices realized during 1954 and 1947. The amount reported for bodies and other equipment billed with basic chassis represents (1) the value received for bodies and other equipment shipped with the basic chassis; and (2) any plus or minus differences not included in the amounts reported for basic chassis due to the use of average wholesale prices for computing the values of the basic chassis.

⁵This figure includes value of motor vehicle replacement parts such as spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, headlights, fan belts, springs, hardware, mufflers, radiators and cores, water and fuel pumps, wheels, universal joints, cylinder heads, nut and drum assemblies, transmissions, shock absorbers, rear axle shafts, and clutch disc and facing assemblies. This figure represents the shipments of these parts by parts manufacturers to other than motor vehicle manufacturers and shipment of replacement parts by motor vehicle manufacturers, including parts which they purchased and resold in the same condition. No duplication is involved since parts manufacturers reported separately parts shipped to motor vehicle manufacturers and the latter figure is not included in this total. Value of shipments of tires and tubes and motor vehicle accessories such as radios, heaters, etc., are not included in this figure.

⁶Separate figures are shown for fire department vehicles produced on purchased chassis (code 3717231) and for fire department vehicles produced on chassis of own manufacture (code 3717611). A small number of fire department vehicles, however, are produced on chassis furnished by customers.

⁷Withheld for security reasons, on advice from the Bureau of the Budget.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

December 1960

MC(P)-37A-Supplement

SPECIAL PRODUCT REPORT ON PRODUCTION AND USE OF AUTOMOTIVE PARTS: 1958 AND 1954

(Supplement to the 1958 Preliminary Report on the Motor Vehicles and Parts Industry)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

Manufacturers' shipments of replacement parts for passenger cars, trucks, busses, and trailers during 1958 amounted to \$1,903 million, according to the preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. The comparable 1954 figure was \$1,641 million. These figures include parts made by establishments classified in the Motor Vehicles and Parts Industry as well as parts classified as primary products of other industries. They include the value of motor vehicle replacement parts such as spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, headlights, fan belts, springs, hardware, mufflers, radiators and cores, water and fuel pumps, wheels, universal joints, cylinder heads, hub and drum assemblies, transmissions, shock absorbers, rear axle shafts, and clutch disc and facing assemblies.

These figures represent the shipments of these parts by parts manufacturers to other than motor vehicle manufacturers and shipments of replacement parts by motor vehicle manufacturers including parts which they purchased and resold in the same condition. No duplication is involved since parts manufacturers reported separately parts shipped to motor vehicle manufacturers and the latter figure is not included in this total. Value of shipments of tires and tubes and motor vehicle accessories such as radios, heaters, etc., are not included in this figure.

In order to arrive at an aggregate value for replacement parts without duplication, establishments producing replacement parts but

not engaged in manufacturing complete vehicles were requested to exclude from their shipments data on replacement parts all shipments to motor vehicle producers. Motor vehicle producers that reshipped such replacement parts were requested to report the value of these shipments, even though the parts were not made by such companies. The value of replacement parts in 1958 totaled the \$1,903 million referred to above.

The accompanying table shows data for 1958 and 1954 on the total production of selected motor vehicle parts and the use of such parts in the assembly of new vehicles as well as the use of these parts for replacement and export. These data are not a precise measure of the sale of replacement parts in the United States since they include shipments of parts for export and are affected by inventory changes of parts during the year by both producers of parts and assemblers of vehicles.

Detailed figures for the Motor Vehicles and Parts Industry will appear in the final Census report MC58-37A which will be published and offered for sale at a later date. This will include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," and "value added," both adjusted and unadjusted. Order forms for the final reports may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

PRODUCTION AND USE OF PARTS FOR PASSENGER CARS, TRUCKS, BUSES, AND TRAILERS: 1958 AND 1954

Product	Total number of units (1,000)					
	1958			1954		
	Produced	Used in assembly of new vehicles	For replacement, export, and other purposes ¹	Produced	Used in assembly of new vehicles	For replacement, export, and other purposes ¹
Engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories):						
Gasoline.....	5,370	5,032	338	6,999	6,543	456
Diesel and semi-Diesel.....	31	25	6	16	13	3
Carburetors.....	9,750	5,032	4,718	11,269	6,543	4,726
Piston rings:						
Oil type.....	135,312	37,295	98,017	223,897	60,233	163,664
Compression.....	307,897	73,035	234,862	353,014	93,410	259,604
Fuel pump assemblies (excluding kits and rebuilds).....	9,468	5,057	4,411	11,960	6,556	5,404
Water pump assemblies (excluding kits and rebuilds).....	6,875	5,057	1,818	9,055	6,556	2,499
Ignition coils.....	8,171	5,032	3,139	10,809	6,543	4,266
Spark plugs.....	396,064	38,040	358,024	350,727	46,411	304,316
Oil filter elements.....	99,377	5,032	94,345	(NA)	(NA)	(NA)
Mufflers (exhaust).....	30,686	6,946	23,740	25,606	6,802	18,804
Muffler tail pipes.....	29,059	6,946	22,113	21,615	6,802	14,813
Radiators, complete.....	5,351	5,057	294	7,856	6,556	1,300
Regulators for battery charging generators:						
Passenger car and light truck type ²	10,231	4,740	5,491	9,773	(NA)	(NA)
Heavy duty truck and bus type ²	1,121	409	712	365	(NA)	(NA)
Condensers ²	39,934	6,830	33,104	27,676	(NA)	(NA)
Breaker point sets:						
Contact arms ²	49,726	3,690	46,036	39,637	(NA)	(NA)
Contact supports and screws ²	34,926	3,690	31,236	34,698	(NA)	(NA)
Wheels for passenger cars.....	28,707	22,101	6,606	(NA)	(NA)	(NA)
Transmission (except auxiliary):						
Passenger car type:						
Conventional transmissions.....	1,174	1,038	136	2,292	2,239	53
Automatic transmissions (including semiautomatic).....	3,383	3,224	159	3,929	3,311	618
Truck and bus type:						
Conventional transmissions.....	983	916	67	1,136	967	169
Automatic transmissions (including semiautomatic).....	49	22	27	66	39	27
Universal joints.....	13,904	11,569	2,335	13,645	8,727	4,918
Rear axle shafts.....	9,940	9,304	636	(NA)	(NA)	(NA)
Clutch disc and facing assemblies.....	8,932	1,954	6,978	8,106	3,206	4,900
Headlights, sealed beam units.....	53,050	19,724	33,326	31,838	13,112	18,726

NA Not available.

¹The number of motor vehicle parts for the replacement and export markets was derived from the figures on "Total number of units produced" reported by parts producers and motor vehicle manufacturers and the figure on "Total number of units used in the assembly of new vehicles" reported by motor vehicle producers. Only new parts are included; rebuilt engines, carburetors, pistons, etc., are excluded.

²For these products, total number of units shipped were used instead of total number of units produced.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

January 1960

MC(P)-37B-1

AIRCRAFT PROPELLERS INDUSTRY

(Industry Code 3723--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Aircraft Propellers Industry shipped products valued at \$235.3 million, an increase of 9 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 15.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$127.7 million in 1958, an increase of 18 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE AIRCRAFT PROPELLERS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3723)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.5	16.5	-7
Payroll.....	Million dollars...	85.6	78.1	+11
Production workers:				
Number.....	Thousands.....	9.6	11.6	-17
Man-hours.....	Millions.....	19.4	22.2	-13
Wages.....	Million dollars...	49.5	49.1	+1
Value added by manufacture, unadjusted ²	do.....	127.7	108.4	+18
Value added by manufacture, adjusted ³	do.....	112.3	99.4	+13
Cost of materials, fuel, electricity, and contract work ⁴	do.....	106.6	106.6	...
Value of shipments ⁵	do.....	235.3	215.2	+9
Capital expenditures, new.....	do.....	5.1	4.3	+19
Number of establishments with 20 or more employees.....	Number.....	11	13	-15

¹The figures in this report include the results for establishments located in the continental United States. Alaska and Hawaii were not States until 1959. They will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text, "Value of Shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For sale by Bureau of the Census, Washington 25, D. C., and U.S. Department of Commerce Field Offices. 10 cents.
Complete set of approximately 250-400 preliminary Census of Manufactures reports, \$35.00

The Aircraft Propeller Industry includes establishments engaged primarily in the manufacture of aircraft propellers and propeller parts, but not engaged in manufacturing or assembling complete aircraft. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Aircraft Propellers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Aircraft Propeller Industry amounted to \$235.3 million. Of this total, \$158 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$167 million of aircraft propellers, propeller blades, and propeller parts were shipped by all producers of these products. Of this total, \$158 million, or 95 percent, were shipped by plants classified in Industry 3723, Aircraft Propellers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE AIRCRAFT PROPELLERS INDUSTRY (S.I.C. CODE 3723), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
UNITED STATES, TOTAL....	15,505	85,635	9,617	19,372	49,478	127,693	112,301	235,270	5,107	11	16,523	108,415
East North Central.....	2,644	15,337	1,661	3,371	9,260	21,884	19,517	41,312	1,010	5	4,776	37,095
All other divisions.....	12,861	70,298	7,956	16,001	40,218	105,809	92,784	193,958	4,097	6	11,147	71,320

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF AIRCRAFT PROPELLERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Aircraft Propellers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3723---	Aircraft propellers, total.....	xxx	166,952	xxx	191,012
3723011	Complete propellers ¹	22,132	94,832	xxx	88,176
3723031	Propeller blades.....	7,013	13,291	xxx	21,953
3723051	Propeller parts, except propeller blades.....	xxx	58,829	xxx	80,883

xxx Not applicable.

¹Figures also shown for 1958 in Facts for Industry Series M37E "Aircraft Propellers."

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-37B-2

AIRCRAFT ENGINES INDUSTRY

(Industry Code 3722—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Aircraft Engines Industry shipped products valued at \$3,351 million, an increase of 5 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 11 percent from 1954 to 1958 to a total of 149.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$1,524 million in 1958, an increase of 17 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE AIRCRAFT ENGINES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3722)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	149.8	167.4	-11
Payroll.....	Million dollars...	930.3	819.2	-13
Production workers:				
Number.....	Thousands.....	87.9	117.3	-25
Man-hours.....	Millions.....	180.9	243.5	-26
Wages.....	Million dollars...	469.4	522.8	-10
Value added by manufacture, unadjusted ².....	..do.....	1,670.4	1,435.4	+16
Value added by manufacture, adjusted ³.....	..do.....	1,524.5	1,302.2	+17
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	1,649.3	1,753.5	-6
Value of shipments ⁵.....	..do.....	3,351.2	3,188.9	+5
Capital expenditures, new.....	..do.....	50.5	46.7	+8
Number of establishments with 20 or more employees ⁶	Number.....	171	183	-7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Aircraft Engines Industry includes establishments engaged primarily in the manufacture of aircraft engines and engine parts, but not engaged in manufacturing or assembling complete aircraft. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Aircraft Engines Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Aircraft Engines Industry amounted to \$3,351 million. Of this total, \$2,881 million were products primary to the industry, \$268 million were products primary to other industries, and \$202 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$3,102 million of Aircraft engines, engine part and other aeronautical services were shipped by all producers of these products. Of this total, \$2,881 million, or 93 percent, were shipped by plants classified in Industry 3722, Aircraft Engines while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE AIRCRAFT ENGINES INDUSTRY (S.I.C. CODE 3722) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	149,767	930,318	87,919	180,869	469,411	1,670,380	1,524,543	3,351,237	50,473	171	167,383	1,435,443
New England.....	41,749	235,703	29,660	61,984	149,660	398,379	377,267	1,039,922	13,400	33	44,859	325,219
Massachusetts.....	5,664	36,299	3,062	6,312	17,859	58,337	57,573	93,538	2,083	8	5,594	52,098
Connecticut.....	34,972	193,854	25,609	53,365	127,409	330,534	309,327	930,000	11,058	21	38,897	270,518
Middle Atlantic.....	26,159	154,701	17,000	34,581	92,438	281,526	282,674	468,056	4,979	33	41,595	348,797
Pennsylvania.....	5,963	31,606	4,642	9,326	22,773	63,926	62,254	100,253	1,184	12	12,117	95,901
North Central.....	59,749	382,631	31,694	63,182	174,519	796,288	666,642	1,517,505	20,422	79	75,894	722,587
Ohio.....	26,208	176,988	12,913	26,296	73,789	287,287	295,784	642,656	8,766	22	29,699	283,764
Indiana.....	15,650	95,202	8,643	17,131	46,637	147,269	134,800	331,814	4,320	13	15,623	147,533
Illinois.....	7,329	44,976	4,182	8,419	23,798	265,140	139,366	393,962	1,099	10	14,008	105,515
Michigan.....	4,624	29,316	3,060	5,661	16,199	44,689	41,792	63,606	777	27	7,892	85,086
South and West.....	22,100	147,164	9,565	21,122	52,794	194,187	197,960	325,754	11,672	26	5,034	38,839
California.....	17,012	126,802	6,267	14,221	39,202	161,198	163,986	250,461	6,412	14	4,246	35,337

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF AIRCRAFT ENGINES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Aircraft Engines Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments (\$1,000)	
		1958	1954
3722--	Aircraft engines, total.....	3,101,775	3,190,539
37221--	Aircraft engines ¹	1,233,755	1,511,231
37222--	Aircraft engine parts and accessories.....	1,243,337	1,466,943
3722211	For United States military customers.....	845,295	1,317,860
3722251	For other than United States military customers.....	398,042	149,083
37223--	Other aeronautical services (including research and development work on aircraft engines) ²	624,683	212,365
3722311	Other aeronautical services for United States military customers (excluding aircraft and aircraft parts but including receipts for research and development in aircraft engines).....	618,327	210,967
3722351	Research and development work on aircraft engines for other than United States military customers (including receipts for work done for affiliates and other establishments of your company).....	6,356	1,398

xxx Not applicable.

¹Statistics on shipments of complete civil aircraft and engines for civilian aircraft were collected monthly and published in the Facts for Industry Series M37G.

²Value figures for modifications, conversions and overhaul of previously delivered aircraft and for aeronautical services on complete aircraft and aircraft engines represent approximate value of work done and were reported in terms of receipts, billings or value of work done during the year.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-37B-3

AIRCRAFT INDUSTRY

(Industry Code 3721--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Aircraft Industry reported work done valued at \$6,452 million, a decrease of 2 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 17 percent from 1954 to 1958 to a total of 378.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$3,394 million in 1958, a decrease of 9 percent from 1954 when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Industry 3721 comprises establishments engaged in manufacturing or assembling complete aircraft such as airplanes, gliders, helicopters, dirigibles, and balloons, and which may also manufacture aircraft parts and auxiliary equipment. Establishments primarily engaged in modifications and conversions of aircraft are also included in this industry. Establishments primarily engaged in manufacturing engines,

propellers, and other aircraft parts and auxiliary equipment, but not engaged in manufacturing or assembling complete aircraft are classified in Industries 3722, Aircraft Engines; 3723, Aircraft Propellers; and 3729, Aircraft Equipment, N.E.C., respectively. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF WORK DONE

In Industry 3721 there is usually a significant difference between value of actual physical shipments and value of work done during a specified period. This is primarily due to lead time between the input of materials and labor and the shipments of completed aircraft. In evaluating the internal relationships of the Aircraft Industry, such as the ratio of cost of materials or payrolls to output, the value of aircraft shipments for the year is generally not meaningful and value of work done is therefore substituted. For the 1958 Census of Manufactures, establishments producing military and commercial aircraft (3,000 lbs. or more airframe weight) were requested to report both the value of shipments of aircraft and value of work done during the year. This latter statistic included total costs (materials, labor, overhead, etc.) and reflected the value of work done during 1958, including work done on aircraft not accepted during the year, but excluding the value of work done in prior years.

The value of work done reported by establishments classified in the Aircraft Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of work done and other receipts of establishments classified in the Aircraft Industry amounted to \$6,452 million. This included receipts from primary activities valued at \$5,057 million; \$986 million from shipments of products primary to other industries; and \$409 million of receipts for miscellaneous activities. The industry receipts for primary activities represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of work done for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of work done by all manufacturers. The latter figure, appearing in table 3, indicates that \$5,362 million of work was done on aircraft. Of this total, \$5,057 million, or 94 percent,

was done by plants classified in Industry 3721, Aircraft, while the remainder was done by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964, covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 1.--GENERAL STATISTICS FOR THE AIRCRAFT INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3721)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	378.5	457.6	-17
Payroll.....	Million dollars...	2,346.4	2,277.3	+3
Production workers:				
Number.....	Thousands.....	252.1	320.4	-21
Man-hours.....	Millions.....	509.9	654.8	-22
Wages.....	Million dollars...	1,338.6	1,441.6	-7
Value added by manufacture, unadjusted ².....	...do.....	3,372.7	3,348.9	+1
Value added by manufacture, adjusted ³.....	...do.....	3,393.8	3,722.3	-9
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	3,043.4	*3,193.8	-5
Value of work done ⁵.....	...do.....	6,452.0	*6,562.6	-2
Capital expenditures, new.....	...do.....	94.0	59.4	+58
Number of establishments with 20 or more employees ⁶	Number.....	97	69	+41

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of work done less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of work done." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

*Revised.

Table 2.--GENERAL STATISTICS FOR THE AIRCRAFT INDUSTRY (S.I.C. CODE 3721) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	378,554	2,346,366	252,050	509,870	1,338,607	3,372,748	3,393,787	6,452,016	93,981	97	457,618	3,348,876
New England.....	11,629	63,180	7,633	16,203	37,047	79,159	82,342	182,682	9,840	5	6,069	42,516
Middle Atlantic.....	31,497	206,937	21,745	41,228	119,492	306,561	304,541	492,705	5,035	14	56,547	483,795
New York.....	26,676	180,545	18,494	34,434	103,451	258,948	256,561	419,323	4,184	9	51,005	440,796
North Central.....	70,289	407,938	47,518	95,060	241,532	542,539	550,636	1,382,993	11,298	22	74,170	530,987
South.....	91,085	554,755	64,749	128,073	347,801	804,803	807,677	1,450,596	28,116	19	100,557	654,455
Texas.....	40,555	253,605	29,637	57,463	167,727	389,397	391,098	833,245	13,067	6	41,148	255,303
West.....	174,034	1,113,556	110,405	229,306	592,735	1,639,686	1,648,591	2,943,040	39,672	37	220,260	1,637,320

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of work done less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of work done."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--VALUE OF WORK DONE AND QUANTITY AND VALUE OF SHIPMENTS OF COMPLETE AIRCRAFT BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Aircraft Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of Work Done")

Product code	Product	Total value of work done and shipments of complete aircraft			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3721---	Aircraft.....	xxx	(¹)	xxx	(¹)
3721110	Value of work done on aircraft military type for United States military customers, excluding modifications, conversions, and other aeronautical services.....	xxx	3,498,587	xxx	4,286,260
37212--	Value of work done on aircraft, personal type:				
3721210	For other than United States military customers, excluding modifications, conversions, and other aeronautical services....	xxx	988,237	xxx	291,705
37214--	Modifications, conversions, and overhaul of previously accepted aircraft.....	xxx	298,800	xxx	167,829
3721411	For United States military customers.....	xxx	286,265	xxx	161,159
3721451	For other than United States military customers.....	xxx	12,535	xxx	6,670
37215--	Other aeronautical services (including research and development on aircraft) ²	xxx	575,919	xxx	856,682
3721511	For United States military customers.....	xxx	519,476	xxx	834,802
3721551	For other than United States military customers.....	xxx	56,443	xxx	1,880
3721911	Aircraft, complete, accepted during 1958: ³				
	For United States military customers (including airplanes, balloons, helicopters, and autogiros).....	xxx	3,255,446	xxx	3,878,742
	For other than United States military customers (including airplanes, balloons, helicopters and autogiros):				
	Complete civilian aircraft under 3,000 pounds airframe weight.....	xxx	100,803	xxx	41,406
	1- and 2- place:				
3721931	Under 100 h.p.....	1,021	6,316	31	58
3721932	100-399 h.p.....			496	5,692
3721935-	All other complete civilian aircraft, under 3,000				
3721939	pounds air base weight.....	5,501	94,487	2,571	35,609
3721951-					
3721959	Complete civilian aircraft, 3,000 pounds airframe weight and over.....	360	399,326	291	254,502

xxx Not applicable.

¹Total value of shipments figure for aircraft differs from value of work done. See text for explanation of differences.

²Value data for modifications, conversions and overhaul of previously delivered aircraft and for aeronautical services on complete aircraft and aircraft engines represent approximate value of work done for both years and were reported in terms of receipts, billings or value of work done during these years.

³Statistics on shipments of complete civil aircraft and engines for civil aircraft were collected monthly and published in Facts for Industry M57G.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-37B-34

AIRCRAFT EQUIPMENT, N.E.C., INDUSTRY

(Industry Code 3729--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Aircraft Equipment, Not Elsewhere Classified, Industry Shipped products valued at \$2,277 million, a decrease of 4 percent from 1954, according to preliminary results obtained from the 1954 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 13 percent from 1954 to 1958 to a total of 157.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$1,330 million in 1958, an increase of 1 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE AIRCRAFT EQUIPMENT, N.E.C. INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3729)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	157.6	180.9	-13
Payroll.....	Million dollars...	937.9	874.3	+7
Production workers:				
Number.....	Thousands.....	111.5	136.6	-18
Man-hours.....	Millions.....	232.4	285.8	-19
Wages.....	Million dollars...	598.8	611.7	-2
Value added by manufacture, unadjusted ².....	...do.....	1,358.5	1,394.9	-3
Value added by manufacture, adjusted ³.....	...do.....	1,330.1	1,314.0	+1
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	907.1	972.4	-7
Value of shipments ⁵.....	...do.....	2,277.1	2,373.8	-4
Capital expenditures, new.....	...do.....	39.4	31.8	+24
Number of establishments with 20 or more employees ⁶	Number.....	471	480	-2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This industry comprises establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c., but not engaged in assembling complete aircraft. Important products of this industry include airframe assemblies, wing assemblies, flaps and dive brakes, elevators, fins, rudders, and other empennage assemblies; alighting assemblies and parts such as landing and beaching gear, pontoons, and landing skis; auxiliary equipment such as deicing equipment, fuel metering systems, aircraft hydraulic systems, bomb racks, turrets and turret drivers, parachutes, targets, link trainers, and other auxiliary equipment specifically adapted for aircraft. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in Industry 3721; aircraft engines and parts in Industry 3722; aircraft propellers and propeller parts in Industry 3723; aeronautical instruments in Industry 3811, Scientific Instruments; and aeronautical electrical equipment in Industry 3641, Engine Electrical Equipment.

Establishments primarily engaged in manufacturing aircraft hardware are classified in Industry 3429, Hardware, N.E.C.; aviation job stampings in Industry 3463, Metal Stampings; aircraft incandescent lighting equipment in Industry 3471, Lighting Fixtures; aircraft cabin air conditioners in Industry 3585, Refrigeration Machinery; panel type electrical measuring instruments in Industry 3613, Electrical Measuring Instruments; and aircraft engine instruments (except electrical) in Industry 3821, Mechanical Measuring Instruments. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable

figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Aircraft Equipment, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Aircraft Equipment, N.E.C., Industry amounted to \$2,277 million. Of this total, \$1,927 million were products primary to the industry, \$207 million were products primary to other industries, and \$143 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$2,839 million of aircraft equipment, n.e.c., were shipped by all producers of these products. Of this total, \$1,927 million, or 68 percent, were shipped by plants classified in Industry 3729, Aircraft Equipment, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE AIRCRAFT EQUIPMENT, N.E.C., INDUSTRY (S.I.C. CODE 3729), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	157,604	937,924	111,485	232,420	598,840	1,358,574	1,330,097	2,277,090	39,365	471	180,946	1,394,886
All other divisions....	112,115	670,836	81,995	172,336	443,627	980,820	975,867	1,549,508	30,763	375	104,281	798,468
New York.....	15,308	83,836	11,730	23,283	56,474	124,051	120,586	173,629	2,210	47	20,194	158,016
Pennsylvania.....	1,396	8,613	1,029	2,317	5,426	11,596	12,371	18,251	474	13	9,801	68,410
East North Central.....	40,070	238,194	25,066	50,911	133,446	332,517	312,681	655,296	7,652	73	61,029	478,275
Indiana.....	10,056	61,711	5,503	11,376	30,658	85,707	82,109	186,075	1,320	11	15,540	110,638
West North Central.....	5,419	28,894	4,424	9,173	21,767	45,237	41,549	72,286	950	23	15,634	118,141
Oklahoma.....	773	3,634	700	1,366	2,937	5,144	5,844	6,699	33	3	1,011	5,412
Washington.....	454	2,633	386	802	1,934	3,873	4,000	5,154	360	6	245	1,456
California.....	62,407	389,814	46,662	100,293	263,307	536,452	550,316	860,446	17,247	210	48,728	393,819

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF AIRCRAFT EQUIPMENT, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Aircraft Equipment, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of Shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3729---	Aircraft equipment, n.e.c.....	xxx	2,839,465	xxx	2,866,553
37290--	Aircraft parts and auxiliary equipment not elsewhere classified..	xxx	2,839,465		
3729011	Parachutes.....	51,438	23,545		
3729098	Other aircraft subassemblies and parts.....	xxx	2,815,920		

xxx Not applicable.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-37C-1

MOTORCYCLES AND BICYCLES INDUSTRY

(Industry Code 3751--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Motorcycles and Bicycles Industry shipped products valued at \$118 million, an increase of 18 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 1 percent from 1954 to 1958 to a total of 7.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$51 million in 1958, an increase of 27 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE MOTORCYCLES AND BICYCLES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3751)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.2	7.1	+1
Payroll.....	Million dollars...	32.2	28.1	+15
Production workers:				
Number.....	Thousands.....	6.0	6.0	0
Man-hours.....	Millions.....	12.0	11.1	+8
Wages.....	Million dollars...	23.5	21.6	+9
Value added by manufacture, unadjusted ²	do.....	50.4	41.8	+21
Value added by manufacture, adjusted ³	do.....	50.9	40.2	+27
Cost of materials, fuel, electricity, and contract work ⁴	do.....	67.3	58.0	+16
Value of shipments ⁵	do.....	118.4	100.5	+18
Capital expenditures, new.....	do.....	2.5	1.5	+67
Number of establishments with 20 or more employees ⁶	Number.....	28	14	+100

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

This Industry includes establishments engaged primarily in the manufacture of motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles except bicycles are classified in Industry 3943. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Motorcycles and Bicycles Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Motorcycles and Bicycles Industry amounted to \$118 million. Of this total, \$96 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$104 million of motorcycles and bicycles were shipped by all producers of these products. Of this total, \$96 million, or 93 percent, were shipped by plants classified in Industry 3751, Motorcycles and Bicycles while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE MOTORCYCLES AND BICYCLES INDUSTRY (S.I.C. CODE 3751) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,213	32,188	6,001	11,975	23,528	50,420	50,882	118,438	2,452	28	7,061	41,819
Northeast.....	1,461	5,838	1,246	2,396	4,532	8,756	9,097	21,499	421	10	1,637	7,970
North Central.....	3,655	17,927	2,875	5,719	12,975	26,414	27,266	61,025	1,006	11	5,039	31,894
Ohio.....	592	2,432	503	982	1,928	4,906	4,906	12,001	135	5	1,922	11,628
South and West.....	2,097	8,423	1,880	3,860	6,021	15,250	14,519	35,914	1,025	7	384	1,954

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF MOTOR CYCLES AND BICYCLES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Motorcycles and Bicycles Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3751---	Motorcycles and bicycles total.....	xxx	103,650	xxx	88,340
37511--	Motorcycles, motor bikes, motorscooters and parts total.....	xxx	26,019	xxx	16,305
37512--	Bicycles and parts.....	xxx	74,772	xxx	72,035
3751211	Bicycles complete.....	1,977,282	57,341	1,746,000	54,976
3751251	Parts for bicycles, including frame sets (include motor bike parts which are interchangeable with bicycle parts)....	xxx	17,431	xxx	17,059
3751000	Motorcycles, Bicycles, and parts, not specified by kind.....	xxx	2,859	(NA)	(NA)

NA Not available.

xxx Not applicable.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -37C-2

SHIP BUILDING AND REPAIRING INDUSTRY

(Industry Code 3731—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Ship Building and Repairing Industry did work valued at \$1,570 million, an increase of 45 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 8 percent from 1954 to 1958 to a total of 118.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$857 million in 1958, an increase of 28 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SHIP BUILDING AND REPAIRING INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3731)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	118.3	109.5	+8
Payroll.....	Million dollars...	666.3	504.5	+32
Production workers:				
Number.....	Thousands.....	100.3	96.2	+4
Man-hours.....	Millions.....	196.1	188.0	+4
Wages.....	Million dollars...	534.7	421.8	+27
Value added by manufacture, unadjusted ².....	..do.....	855.9	691.9	+24
Value added by manufacture, adjusted ³.....	..do.....	856.9	670.9	+28
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	713.3	391.4	+82
Value of work done ⁵.....	..do.....	1,570.2	1,084.2	+45
Capital expenditures, new.....	..do.....	38.5	19.3	+100
Number of establishments with 20 or more employees ⁶	Number.....	223	245	-9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of work done less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of work done."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

This Industry includes establishments engaged primarily in building and repairing all types of ships, barges, canal boats and lighters, whether propelled by sail or motor power or towed by other craft. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are not classified in this Industry. Establishments primarily engaged in building and repairing boats are classified in Industry 3732. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF WORK DONE

The total value of work done and other receipts of establishments classified in the Ship Building and Repairing Industry amounted to \$1,570 million. This included receipts from primary activities (ship building and repairing) valued at \$1,448; \$68 million from shipments of products primary to other industries; and \$54 million of receipts for miscellaneous activities (mainly contract work on materials owned by others). The industry receipts for ship building and repairing represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The value of ship building and repairing represents value of work done during the year. This provides a more adequate measure of

the activity in this Industry than value of vessels completed and delivered, primarily because of the length of the production cycle, which may be several years for some vessels. Value of shipments (deliveries) would result in a distortion for establishments working on a vessel all year, but not completing it during the year or, conversely, for establishments completing and delivering a vessel during a year when most of the work was performed in previous years. Respondents were requested to compute the value of work done by including the cost of labor, the cost of purchased materials and parts received during 1958, overhead and profits by one of the following methods: (1) estimating the percentage of completion during 1958, (2) reporting net billings for work done during 1958, or (3) reporting payments received for work done during 1958.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE SHIP BUILDING AND REPAIRING INDUSTRY (S.I.C. CODE 3731) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	118,295	666,322	100,323	196,130	534,695	855,876	856,906	1,570,211	38,491	223	109,451	691,908
New England.....	21,278	131,464	16,577	35,205	91,373	151,855	151,867	304,155	7,637	16	14,105	95,427
Middle Atlantic.....	23,036	129,617	19,190	36,645	104,700	171,980	172,135	285,147	8,061	55	23,286	143,237
New York.....	6,640	35,727	5,233	9,125	25,861	49,971	50,063	72,391	2,396	33	8,844	58,130
New Jersey.....	12,070	67,454	10,506	20,500	59,122	91,372	91,396	151,306	2,529	17	10,185	56,885
Pennsylvania.....	4,326	26,436	3,451	7,020	19,717	30,637	30,676	61,450	3,136	5	4,256	28,221
North Central.....	6,889	35,282	6,084	12,079	28,909	50,714	50,779	103,814	1,689	23	7,753	53,954
Ohio.....	1,672	9,087	1,559	3,079	8,193	9,675	9,700	16,497	755	5	1,604	12,860
Michigan.....	1,702	8,595	1,494	2,798	6,784	11,826	11,826	31,363	283	4	895	5,195
Wisconsin.....	1,770	9,064	1,556	3,241	7,234	16,313	16,319	26,966	223	6	3,607	23,860
South Atlantic.....	29,855	162,009	25,924	49,282	133,685	210,444	210,869	392,818	13,060	47	28,012	181,860
East South Central.....	13,587	75,620	12,425	25,495	70,902	89,348	89,277	170,044	1,922	12	8,243	46,136
West South Central.....	9,882	51,153	8,150	15,192	38,504	74,531	74,640	121,968	2,713	35	11,611	60,535
Louisiana.....	5,810	29,219	4,891	9,037	22,703	41,023	41,225	66,058	1,280	19	7,974	41,629
Pacific.....	13,768	81,177	11,973	22,232	66,622	107,004	107,339	192,265	3,409	35	16,439	110,756
California.....	8,624	50,658	7,508	13,752	41,313	64,375	64,709	110,912	2,401	22	11,077	75,734

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of work done less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of work done."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--VALUE OF WORK DONE IN THE SHIP BUILDING AND REPAIRING INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Ship Building and Repairing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of work done")

Product code	Product	Value of work done (1,000) ¹	
		1958	1954
3731--	Ship building and repairing.....	1,463,314	972,154
3731110	Nonpropelled ships, new construction, military including hopper barges, tank barges, covered cargo barges, deck barges, dredges, car floats, etc.....	(D)	15,672
3731210	Self-propelled ships, new construction, military (include combat ships, troop transport vessels, fleet auxiliaries service craft, etc.).....	469,965	296,263
37313--	Ship repair, conversions and reconversions, military:		
3731313	Conversions and reconversions.....	41,242	133,315
3731319	All other repairs.....	84,372	
37314--	Nonpropelled ships-nonmilitary ships, new construction:		
3731411	Hopper barges.....	26,827	55,341
3731421	Tank barges.....	12,670	
3731431	Covered cargo barges.....	12,901	
3731441	Deck barges.....	9,124	
3731451	Dredges.....	2,108	
3731461	Car floats.....	334	
3731471	Other nonmilitary nonpropelled.....	31,577	
3731510	Self-propelled ships, nonmilitary (including passenger ships, passenger-cargo, dry cargo, tankers, towboats, tugboats, tender vessels, commercial sailing vessels, yachts, ferryboats, fireboats, etc.).....	439,700	227,424
37316--	Ship repair, conversions, and reconversions, nonmilitary:		
	Maritime Administration:		
3731613	Conversions and reconversions.....	(D)	51,269
3731619	All other repairs.....	25,733	
	All other:		
3731653	Conversions and reconversions.....	61,543	188,615
3731659	All other repairs.....	220,259	
3731000	Ship building and repairing, not specified by kind.....	8,901	4,255

D. Withheld to avoid disclosing figures for individual companies.

¹The total value of work done for ship building and repairing differs from "Value of shipments." See text for explanation.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-37C-3

BOATBUILDING AND REPAIRING INDUSTRY

(Industry Code 3732—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Boatbuilding and Repairing Industry shipped products valued at \$320 million, an increase of 96 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 46 percent from 1954 to 1958 to a total of 24.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$157 million in 1958, an increase of 82 percent from 1954 when the previ-

ous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE BOATBUILDING AND REPAIRING INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3732)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	24.6	16.9	+46
Payroll.....	Million dollars...	100.9	57.6	+75
Production workers:				
Number.....	Thousands.....	20.6	14.7	+40
Man-hours.....	Millions.....	40.6	28.6	+42
Wages.....	Million dollars...	79.0	47.1	+68
Value added by manufacture, unadjusted ².....	..do.....	146.3	84.5	+73
Value added by manufacture, adjusted ³.....	..do.....	156.9	86.3	+82
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	170.0	77.4	+120
Value of shipments ⁵.....	..do.....	320.0	163.6	+96
Capital expenditures, new.....	..do.....	14.3	4.8	+198
Number of establishments with 20 or more employees ⁶	Number.....	271	189	+43

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This Industry comprises establishments primarily engaged in building and repairing all types of boats such as motorboats, sailboats, rowboats, lifeboats, and canoes. Establishments primarily engaged in manufacturing rubber boats, pontoons, and life rafts are classified in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in servicing boats, i.e., rental of dock space, cleaning, storage, etc., or yacht clubs, are excluded from manufacturing and classified in Service industries. Establishments primarily engaged in building and repairing ships are classified in Industry 3731. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Boatbuilding and Repairing Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Boatbuilding and Repairing Industry amounted to \$320 million. Of this total, \$279 million were products primary to the industry,

\$17 million were products primary to other industries, and \$24 million were receipts for miscellaneous activities. The industry shipments of primary products represented 94 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$293 million of boatbuilding and repairing was done by all producers. Of this total, \$279 million, or 95 percent, were shipped by plants classified in Industry 3732, Boatbuilding and Repairing while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE BOATBUILDING AND REPAIRING INDUSTRY (S.I.C. CODE 3732) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	24,630	100,879	20,576	40,597	79,026	146,274	156,947	319,986	14,300	271	16,900	84,507
New England.....	1,839	7,150	1,592	3,122	5,675	10,261	10,782	19,115	567	25	2,316	9,591
Maine.....	516	1,589	465	924	1,362	2,061	2,154	3,990	137	6	683	2,406
Middle Atlantic.....	3,448	14,631	2,912	5,926	11,714	21,347	21,337	43,141	1,472	42	2,658	13,489
New York.....	1,637	6,935	1,381	2,774	5,565	10,820	10,318	20,440	476	20	1,479	7,527
New Jersey.....	1,097	4,681	960	1,965	3,878	6,109	6,195	12,412	633	16	915	4,622
Pennsylvania.....	714	3,015	571	1,187	2,271	4,418	4,824	10,289	363	6	263	1,339
North Central.....	6,237	25,861	5,098	10,417	20,079	38,113	39,721	90,548	1,866	58	4,209	22,566
Ohio.....	595	3,092	541	1,317	2,628	4,731	4,753	9,831	94	6	503	2,409
Michigan.....	2,012	8,868	1,696	3,230	7,057	12,526	11,781	29,263	316	17	2,216	10,668
Wisconsin.....	773	2,909	677	1,277	2,321	4,591	5,074	9,673	328	8	450	1,841
Minnesota.....	1,029	4,154	740	1,634	2,851	5,751	8,064	15,772	131	6	337	1,965
South Atlantic.....	5,433	20,626	4,555	8,566	15,745	29,444	31,283	61,634	3,844	62	3,128	13,579
Maryland.....	1,795	6,905	1,590	2,950	5,731	11,439	12,381	24,799	379	12	829	4,343
Virginia.....	600	2,139	538	898	1,773	3,611	3,627	6,002	328	7	501	2,082
East South Central.....	616	2,206	567	1,127	1,913	4,624	4,701	9,720	415	9	364	2,050
West South Central.....	3,061	10,909	2,435	4,825	8,018	16,564	15,957	39,428	1,728	36	1,981	10,283
Louisiana.....	531	2,089	445	988	1,726	3,114	2,857	6,334	242	8	578	2,502
West.....	3,996	19,496	3,417	6,614	15,882	25,921	33,166	56,400	4,408	39	2,242	12,945
California.....	2,721	13,887	2,322	4,647	11,303	17,858	24,539	40,546	3,656	25	1,445	9,054

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF BOATBUILDING AND REPAIRING BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Boatbuilding and Repairing Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of boats)	Value (\$1,000)	Quantity (number of boats)	Value (\$1,000)
3732---	Boatbuilding and repairing.....	xxx	293,417	xxx	163,605
3732111	Boats of special Army, Navy, or Coast Guard design (new construction).....	xxx	3,582	xxx	13,579
3732211	Receipts for repair work done in 1958 on Army, Navy, or Coast Guard boats.....	xxx	6,668	xxx	6,648
37323--	Boats, nonmilitary, boats new construction (other than specially designed types built for the Army, Navy, or Coast Guard) new construction.....	xxx	215,591	xxx	96,702
	Motorboats (excluding sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits):				
	Inboard:				
3732311	Less than 16 feet in length.....	10,058	4,865	11,581	4,752
3732313	16 feet or over and less than 26 feet in length.....	10,335	29,967	7,421	16,040
3732315	26 feet or over and less than 40 feet in length.....	3,140	28,017	1,373	13,850
3732317	40 feet or over and less than 65 feet in length.....	270	9,756	266	9,870
3732319	65 feet or more in length.....	28	1,201	32	2,244
3732361	Prefabricated boat construction kits.....	17,694	4,922	22,826	3,644
	Motorboats (excluding sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits):				
	Outboards:				
3732371	13 feet 6 inches and under in length.....	57,841	12,591	134,111	36,668
3732375	13 feet 7 inches to and including 15 feet 6 inches in length.....	137,711	51,287		
3732379	15 feet 7 inches and over in length.....	43,407	35,051		
3732398	Other boats, including sailboats, rowboats, canoes, skiffs, dinghies, lifeboats, etc.....	24,413	15,375		
3732300	Boats, nonmilitary, not specified by kind.....	xxx	22,559	xxx	13,634
3732411	Receipts for repair work done in 1958 on all other boats.....	xxx	46,157	xxx	40,074
3732000	Boatbuilding and repairing, not specified by kind.....	xxx	21,419	xxx	6,602

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-37C-4

LOCOMOTIVES AND PARTS INDUSTRY

(Industry Code 3741—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Locomotives and Parts Industry shipped products valued at \$408 million, a decrease of 8 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 27 percent from 1954 to 1958 to a total of 15.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$153 million in 1958, a decrease of 7 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE LOCOMOTIVES AND PARTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3741)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	15.3	20.9	-27
Payroll.....	Million dollars...	90.4	104.3	-13
Production workers:				
Number.....	Thousands.....	10.8	16.0	-32
Man-hours.....	Millions.....	21.1	31.4	-33
Wages.....	Million dollars...	58.5	70.6	-17
Value added by manufacture, unadjusted ².....	..do.....	179.2	188.3	-5
Value added by manufacture, adjusted ³.....	..do.....	152.7	164.0	-7
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	224.9	254.7	-12
Value of shipments ⁵.....	..do.....	408.3	444.4	-8
Capital expenditures, new.....	..do.....	5.3	6.4	-17
Number of establishments with 20 or more employees ⁶	Number.....	14	23	-39

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Locomotives and Parts Industry includes establishments engaged primarily in building and rebuilding locomotives (including steam, compressed air, straight-electric, storage battery, Diesel-Electric, gasoline-electric, and Diesel-mechanical. Establishments primarily engaged in manufacturing rolled steel locomotive wheels are classified in Industry 3312, Blast Furnaces and Steel Mills; cast gray-iron locomotive wheels, in Industry 3321, Gray Iron Foundries; and steel locomotive springs in Industry 3493, Steel Springs. Railroad repair shops engaged in building and rebuilding locomotives are classified in nonmanufacturing industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Locomotives and Parts Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Locomotives and Parts Industry amounted to \$408 million. Of this total, \$320 million were products primary to the industry, \$59 million were products primary to other industries, and \$29 million were receipts for miscellaneous activities. The industry shipments of primary

products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

In both 1958 and 1954 no new or rebuilt locomotives were produced in railroad repair shops. The general statistics (tables 1 and 2) do not include data for shops of operating railroads for either 1958 or 1954.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$355 million of locomotives and parts for locomotives were shipped by all producers of these products. Of this total, \$320 million, or 90 percent, were shipped by plants classified in Industry 3741, Locomotives and Parts, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE LOCOMOTIVES AND PARTS INDUSTRY (S.I.C. CODE 3741) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	15,330	90,422	10,776	21,146	58,528	179,165	152,730	408,259	5,278	14	20,891	188,322
Middle Atlantic.....	7,461	45,454	5,084	10,062	28,332	79,690	65,819	195,951	1,507	4	10,247	66,640

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF LOCOMOTIVES AND PARTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Locomotives and Parts Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3741--	Locomotives and parts, total ¹	xxx	355,200	xxx	365,169
37411--	Locomotives (complete assemblies) railroad road service type (including combination line and switching type):				
3741115	Gas turbine-electric.....	820	147,689	1,022	187,235
3741133	Diesel-electric.....				
3741151	Other railroad service type.....				
37412--	Locomotives-switching type.....	679	72,051	969	65,435
37413--	Locomotives-industrial and mining type.....				
3741511	Rebuilt locomotives.....	xxx	135,460	xxx	112,499
3741451	Parts for sale separately (except wheels) including tenders, locomotive air brakes, repair parts, locomotive stokers, lubrication systems, super heaters, etc.....				

¹Data exclude parts shipped by railroad repair shops. No new or rebuilt locomotives were produced in railroad repair shops.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-37C-5

RAILROAD AND STREET CARS INDUSTRY

(Industry Code 3742—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Railroad and Street Cars Industry shipped products valued at \$599 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 22 percent from 1954 to 1958 to a total of 23.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$165 million in 1958, an increase of 1 percent from 1954 when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

The Railroad and Street Cars Industry includes establishments engaged primarily in building and rebuilding railroad, street, and rapid-transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in

manufacturing mining cars are classified in Industry 3531, Construction and Mining Machinery. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.



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The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Railroad and Street Cars Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Railroad and Street Cars Industry amounted to \$559 million. Of this total, \$478 million were products primary to the industry, \$63 million were products primary to other industries, and \$18 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

Repair shops, or other railroad shops whose activity was not primarily manufacturing were requested in both 1958 and 1954 to report only the quantity and value of the railroad cars built or rebuilt. These figures have been included in table 3 only. Shipments of railroad and Street Cars built and rebuilt by railroad repair shops (primarily nonmanufacturing establishments) in 1958 totaled \$153 million.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$528 million of Railroad, Street Cars and parts were shipped by all producers of these products. Of this total, \$478 million, or 91 percent, were shipped by plants classified in Industry 3742, Railroad and Street Cars, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments,

etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 1.--GENERAL STATISTICS FOR THE RAILROAD AND STREET CARS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3742)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	23.9	30.7	-22
Payroll.....	Million dollars...	130.5	139.3	-6
Production workers:				
Number.....	Thousands.....	17.6	23.8	-26
Man-hours.....	Millions.....	32.1	45.0	-29
Wages.....	Million dollars...	90.0	102.5	-12
Value added by manufacture, unadjusted ².....	...do.....	247.7	215.2	+15
Value added by manufacture, adjusted ³.....	...do.....	165.2	164.0	+1
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	310.0	283.0	+9
Value of shipments ⁵.....	...do.....	558.7	499.3	+12
Capital expenditures, new.....	...do.....	8.6	19.1	-55
Number of establishments with 20 or more employees ⁶	Number.....	43	40	+7

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 2.--GENERAL STATISTICS FOR THE RAILROAD AND STREET CARS INDUSTRY (S.I.C. CODE 3742) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	23,931	130,341	17,616	32,064	90,019	247,661	165,215	558,688	8,580	43	30,683	215,224
Northeast.....	10,055	53,018	7,118	12,139	35,828	105,970	72,954	204,243	3,369	12	14,538	94,537
All other regions.....	13,876	77,323	10,498	19,925	54,191	141,691	92,261	354,445	5,211	31	16,145	120,687
Indiana.....	3,165	18,014	2,499	4,614	13,584	26,183	12,380	86,721	723	4	5,299	36,340
Illinois.....	2,744	15,868	1,968	3,710	8,992	23,516	21,880	39,396	1,478	9	4,057	35,685

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF RAILROAD AND STREET CARS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Railroad Street Cars Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3742---	Railroad and street cars ¹	xxx	528,670	xxx	1468,233
37421--	Passenger train cars, new.....	xxx	11,416	xxx	96,180
3742111	Coach.....	33	7,061	116	20,113
3742113	Coach combination.....			45	11,542
3742121	Baggage, express, and nonpassenger combination.....			42	4,108
3742131	Sleeping and sleeping combination.....			253	43,443
3742141	Club, lounge, parlor, observation, and combination.....			63	9,162
3742151	Dining and dining combination.....			21	3,338
3742198	Other passenger train cars, including postal, postal-passenger combination, express refrigeration and milk, and self-propelled passenger car (such as combination passenger-baggage, etc., cars) including railmotor and multiple unit electric cars.....	83	4,355		
37422--	Freight train cars, new.....	xxx	471,824	xxx	316,001
	Made in manufacturing plants.....	xxx	319,262	xxx	227,093
	Made in railroad car shops ²	xxx	152,562	xxx	88,908
3742211	Box.....			16,223	103,632
	Made in manufacturing plants.....	(³)	(³)	10,447	67,365
	Made in railroad car shops.....			5,776	36,268
3742215	Flat.....	1,918	22,757	2,076	15,878
	Made in manufacturing plants.....	1,288	18,295	425	2,673
	Made in railroad car shops.....	630	4,462	1,651	13,204
3742225	Gondola.....	10,809	107,805	4,505	30,655
	Made in manufacturing plants.....	7,552	73,024	2,999	20,507
	Made in railroad car shops.....	3,257	34,779	1,506	10,148
3742231	Hopper (covered) and hopper (uncovered).....	15,646	143,991	5,539	44,361
3742233	Made in manufacturing plants.....	10,783	104,737	4,971	40,056
	Made in railroad car shops.....	4,863	39,254	568	4,305
3742241	Refrigerator:				
	Made in manufacturing plants.....	(³)	(³)	3,817	38,855
	Made in railroad plants.....	(³)	(³)	(³)	(³)
3742255	Tank, caboose, and other freight train cars, industrial railcars not suitable for use on common carriers, and rebuilt passenger and freight train cars ⁵	³ 21,202	³ 197,273	³ 14,169	³ 82,620
3742245	Made in manufacturing plants.....	12,551	123,206	9,544	57,637
3742298	Made in railroad plants.....	8,651	74,067	4,625	24,983
3742313	Other cars, including railroad work equipment, street, subway, rapid transit, trackless trolleys and interurban cars.....			(NA)	14,813
3742411	Parts for passenger and freight train cars, self-propelled cars, and street, rapid transit, and interurban cars (except wheel) (for sale separately) ⁴	xxx	196,611		
3742000	Railroad and street cars, not specified by kind.....	xxx	1,381	xxx	130,147
				(NA)	(NA)

NA Not available.

xxx Not applicable.

¹For both 1954 and 1958, total excludes value of new and rebuilt freight train cars made in railroad car shops.

²Values of railroad cars built by railroads for own use represents the amounts at which they were written into property accounts.

³Included with figures for other freight train cars (code 3742298).

⁴Excludes parts for passenger and freight cars, made in railroad car shops.

⁵A passenger and freight train car is defined as rebuilt when the cost of their dismantling, improvement and modernization is more than 50% of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Conversions, reclassifications or units which were reconditioned by replacing defective parts are not included.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-38A-1

SURGICAL AND MEDICAL INSTRUMENTS INDUSTRY

(Industry Code 3841--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Surgical and Medical Instruments Industry shipped products valued at \$110 million, an increase of 67 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 32 percent from 1954 to 1958 to a total of 8.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$73 million in 1958, an increase of 71 percent from 1954

when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SURGICAL AND MEDICAL INSTRUMENTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3841)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	8.7	6.6	+32
Payroll.....	Million dollars...	37.0	23.2	+60
Production workers:				
Number.....	Thousands.....	6.8	5.3	+28
Man-hours.....	Millions.....	13.7	11.0	+24
Wages.....	Million dollars...	25.4	17.4	+46
Value added by manufacture, unadjusted ².....	..do.....	67.2	41.7	+61
Value added by manufacture, adjusted.....	..do.....	72.7	42.6	+71
Cost of materials, fuel, electricity, and contract work ³.....	..do.....	40.8	23.3	+75
Value of shipments ⁴.....	..do.....	109.8	65.9	+67
Capital expenditures, new.....	..do.....	2.3	1.0	+130
Number of establishments with 20 or more employees.....	Number.....	66	50	+32

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Surgical and Medical Instruments Industry includes establishments engaged primarily in the manufacture of surgical, veterinary, orthopedic, other medical instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies; and electrotherapeutic, electromedical, and X-Ray apparatus in Industry 3693, X-Ray and Therapeutic Apparatus. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Surgical and Medical Instruments Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Surgical and Medical Instruments Industry amounted to \$110 million. Of this total, \$83 million were products primary to the industry, \$17 million were products primary to other industries, and \$10 million were receipts for miscellaneous activities. The industry shipments of primary products represented 83 percent of the total manufactured product

shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$97 million of surgical and medical instruments were shipped by all producers of these products. Of this total, \$83 million, or 85 percent, were shipped by plants classified in Industry 3841, Surgical and Medical Instruments while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these report and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE SURGICAL AND MEDICAL INSTRUMENTS INDUSTRY (S.I.C. CODE 3841) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	8,714	37,040	6,853	13,716	25,448	67,266	72,797	109,835	2,303	66	6,562	41,656
New England.....	1,777	7,167	1,482	3,040	5,231	11,364	11,938	17,423	322	16	1,093	6,263
Massachusetts.....	676	2,807	511	1,009	1,731	4,683	5,124	8,135	125	11	470	2,681
Middle Atlantic.....	4,172	17,706	3,383	6,822	13,107	32,822	35,507	51,252	940	25	3,839	24,821
New York.....	1,808	8,023	1,429	2,914	5,115	12,361	12,957	19,838	560	18	1,419	7,953
New Jersey.....	2,083	8,459	1,783	3,570	7,351	18,682	20,701	28,087	332	4	2,215	15,768
Pennsylvania.....	281	1,224	171	338	641	1,779	1,849	3,327	48	3	204	1,099
East North Central.....	928	4,272	679	1,357	2,653	10,311	10,696	16,220	177	15	725	5,656
Ohio.....	158	801	117	245	486	1,243	1,251	2,243	20	3	165	1,218
Illinois.....	290	1,246	230	451	810	2,221	2,194	3,034	36	7	310	1,573
West North Central.....	528	1,952	450	822	1,457	2,167	3,341	5,882	405	2	315	1,320
South.....	464	1,496	341	712	1,092	3,023	3,257	4,442	45	3	395	2,208
West.....	845	4,447	518	963	1,908	7,579	8,058	14,616	414	5	192	1,386

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF SURGICAL AND MEDICAL INSTRUMENTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Surgical and Medical Instrument Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total production			
		1958		1954	
		Quantity (1,000)	Value (\$1,000)	Quantity (1,000)	Value (\$1,000)
3841--	Surgical and Medical Instruments, Total.....	xxx	97,284	xxx	69,528
3841012	Surgical instruments (including suture needles, and eye, ear, nose, and throat instruments).....	xxx	10,362	xxx	6,312
3841031	Orthopedic instruments, such as bone drills, bone plates, etc. (excluding eye, ear, nose, and throat instruments).....	xxx	5,938	xxx	4,793
3841051	Diagnostic apparatus (includes such items as metabolism and blood pressure apparatus ophthalmoscopes, otoscopes, cystoscopes, etc.).....	xxx	9,650	xxx	7,837
3841063	Hypodermic syringes:	19,628	14,385	10,562	12,940
3841065	Reusable.....				
3841071	Hypodermic needles.....	182,518	12,510	87,484	7,181
3841098	Other surgical and medical instruments (including anesthesia apparatus, transfusion equipment, blood donor kits, veterinary instruments).....	xxx	36,585	xxx	127,428
3841000	Surgical and medical instruments, not specified by kind.....	xxx	7,854	xxx	3,037

XXX Not applicable.

¹In 1954 an undetermined value of Steel instruments for general surgery was included with other surgical and medical instruments.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -38A-2

SURGICAL APPLIANCES AND SUPPLIES INDUSTRY

(Industry Code 3842--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Surgical Appliances and Supplies Industry shipped products valued at \$502 million, an increase of 31 percent over 1954; according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 2 percent from 1954 to 1958 to a total of 25 thousand employees in 1958. Value added by manufacture in the industry amounted to \$273 million in 1958, an increase of 41 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SURGICAL APPLIANCES AND SUPPLIES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3842)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	25.0	24.5	+2
Payroll.....	Million dollars...	120.4	98.0	+23
Production workers:				
Number.....	Thousands.....	16.6	16.7	-1
Man-hours.....	Millions.....	32.6	32.5	...
Wages.....	Million dollars...	65.0	54.9	+18
Value added by manufacture, unadjusted ².....	...do.....	257.4	179.2	+44
Value added by manufacture, adjusted ³.....	...do.....	273.3	193.9	+41
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	225.6	188.0	+20
Value of shipments ⁵.....	...do.....	501.9	382.9	+31
Capital expenditures, new.....	...do.....	10.2	10.0	+2
Number of establishments with 20 or more employees ⁶	Number.....	153	133	+15

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Surgical Appliances and Supplies Industry includes establishments engaged primarily in the manufacture of surgical and orthopedic appliances and supplies, including surgical gut strings; hospital and surgical sterilizers; artificial limbs; fracture appliances; elastic hosiery, arch supports, and other foot appliances; abdominal supporters, braces, and trusses; sanitary napkins; bandages; surgical gauze and dressings; adhesive tapes and medicated plasters; and personal safety appliances and supplies, not elsewhere classified, gas masks, first aid kits, respirators. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments. Work clothing in Major Group 23, Apparel; rubber clothing, including gloves and shoes in Major Group 30, Rubber Products, leather products, including straps, gloves and shoes in Major Group 31, Leather Products; industrial goggles in Industry 3851 Ophthalmic Goods. Establishments which produce orthopedic appliances primarily according to the specifications of individual prescriptions are classified in retail trade. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Surgical Appliances and Supplies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Surgical Appliances and Supplies Industry amounted to \$502 million. Of this total, \$366 million were products primary to the industry, \$75 million were products primary to other industries, and \$61 million were

receipts for miscellaneous activities. The industry shipments of primary products represented 83 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 85 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$435 million of surgical appliances and supplies were shipped by all producers of these products. Of this total, \$366 million, or 84 percent, were shipped by plants classified in Industry 3842, Surgical Appliances and Supplies, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each area are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SURGICAL APPLIANCES AND SUPPLIES INDUSTRY (S.I.C. CODE 3842) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	24,950	120,449	16,565	32,605	64,989	257,371	273,292	501,890	10,256	153	24,457	179,209
New England.....	3,057	11,362	2,340	4,471	7,609	27,974	28,461	47,632	995	23	2,939	23,230
Massachusetts.....	712	2,405	570	1,090	1,804	8,180	8,306	13,104	291	6	682	6,461
Connecticut.....	1,885	7,384	1,357	2,641	4,513	12,928	12,937	23,881	558	11	1,884	12,223
Middle Atlantic.....	10,765	61,139	5,999	12,192	27,022	122,767	126,012	233,707	5,781	43	10,052	78,752
New York.....	3,178	14,736	2,352	4,707	9,474	36,447	36,767	73,949	992	20	3,077	21,558
East North Central.....	7,707	35,151	5,551	10,726	21,921	82,143	93,969	175,398	1,978	51	8,502	59,079
Ohio.....	1,434	5,848	1,040	2,011	3,218	9,907	9,765	17,850	267	17	1,518	9,021
Illinois.....	4,532	22,052	3,183	6,065	13,908	57,758	69,416	128,773	1,349	20	4,796	38,816
Michigan.....	632	2,465	491	951	1,631	4,030	3,999	8,113	87	5	697	3,862
West North Central.....	793	2,724	613	1,166	1,811	4,415	4,749	9,629	292	11	803	3,868
Missouri.....	636	2,163	492	933	1,437	3,483	3,784	8,078	280	8	623	2,970
South Atlantic.....	1,110	3,502	911	1,710	2,424	5,695	5,940	8,659	840	7	537	2,172
North Carolina.....	593	1,770	478	807	1,241	2,613	2,658	3,308	39	2	246	736
East South Central, West South Central and West.....	1,518	6,571	1,151	2,340	4,202	14,377	14,161	26,865	370	18	1,622	12,104
California.....	1,032	4,976	748	1,494	2,986	11,450	11,206	21,353	278	12	808	6,905

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF SURGICAL APPLIANCES AND SUPPLIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Surgical Appliances and Supplies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total production			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3842---	Surgical appliances and supplies, total.....	.....	xxx	435,198	xxx	332,046
38421--	Sanitary napkins and tampons total.....	.....	xxx	116,087	xxx	76,064
3842111	Sanitary napkins.....	Thousand gross dozen	2,965	116,087	2,489	64,809
3842151	Tampons.....	do.....				295	11,255
38422--	Surgical and orthopedic appliances and supplies.....	.....	xxx	319,111	xxx	255,982
3842211	Orthopedic appliances (braces).....	.....	xxx	9,977	xxx	(1)
3842215	Sterilizers (including hospital and surgical).....	.....	xxx	17,010	xxx	12,819
3842222	Surgical dressing:	.....	.....	.....	.....	.....
3842222	Bandages, elastic.....	.....	xxx	6,554	xxx	265,984
3842223	Bandages, other (including muslin, plaster of Paris, etc.)	Thousand square yards	16,718	8,065		
3842224	Adhesive plaster, medicated and nonmedicated (includes self adhering bandages).....		xxx	47,835	xxx	28,827
3842227	Cotton, including cotton balls (sterile and nonsterile).....	.....	xxx	22,324	xxx	(2)
3842226	Other surgical dressings (includes sponges, compresses pads, and absorbent and packing gauze).....	.....	xxx	29,854		
3842229	Sterile surgical sutures, absorbable.....	.....	xxx	20,804	xxx	19,032
3842233	Sterile surgical sutures, nonabsorbable.....	.....	xxx	8,198		
3842234	Artificial limbs (prosthetic).....	.....	xxx	3,345	xxx	(1)
3842235	Elastic stockings.....	.....	xxx	7,017	xxx	4,416
3842238	Elastic braces, suspensories, and other elastic supports.....	.....	xxx	10,556	xxx	8,513
3842241	Arch supports and other foot appliances.....	.....	xxx	2,041	xxx	4,107
3842245	Trusses.....	.....	xxx	2,839	xxx	(1)
3842251	Corn remover, pads, bunion pads, etc.....	.....	xxx	4,190	xxx	9,940
3842261	Personal safety devices:	.....	.....	.....	.....	.....
3842272	Respiratory protection equipment (includes gas masks, abrasive masks, canister masks, etc.).....	.....	xxx	13,927	xxx	35,962
3842273	Eye and face protection devices (includes faceshields, hoods, and welding helmets and masks.).....	.....	xxx	2,374		
3842275	Protective clothing (except shoes).....	.....	xxx	15,029	xxx	249,978
3842277	First aid, snake bite and burn kits.....	.....	xxx	5,667		
3842279	Other personal safety devices.....	.....	xxx	18,613	xxx	40,413
3842298	Other surgical and orthopedic items (wheel chairs, infant incubators, respirators, etc.).....	.....	xxx	40,413	xxx	249,978
3842200	Surgical and orthopedic appliances and supplies not specified by kind.....	.....	xxx	22,479	xxx	16,404

xxx Not applicable.

¹In 1954, "Orthopedic appliances (braces)," "Artificial limbs (prosthetics)," "Trusses," and "Unsterilized suture materials" were included with "Other surgical and orthopedic items."

²Comparable data for 1954 collected under code 3842221, "Surgical Dressings."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-38A-3

DENTAL EQUIPMENT AND SUPPLIES INDUSTRY

(Industry Code 3843--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Dental Equipment and Supplies Industry shipped products valued at \$116 million, an increase of 38 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 1 percent from 1954 to 1958 to a total of 7.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$72 million in 1958, an increase of 34 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE DENTAL EQUIPMENT AND SUPPLIES INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3843)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.2	7.1	+1
Payroll.....	Million dollars...	34.8	28.2	+23
Production workers:				
Number.....	Thousands.....	5.2	5.1	+2
Man-hours.....	Millions.....	10.3	10.4	-1
Wages.....	Million dollars...	21.1	18.0	+17
Value added by manufacture, unadjusted ².....	...do.....	68.5	51.2	+34
Value added by manufacture, adjusted ³.....	...do.....	71.5	53.3	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	45.2	30.7	+47
Value of shipments ⁵.....	...do.....	115.6	83.5	+38
Capital expenditures, new.....	...do.....	1.7	1.4	+21
Number of establishments with 20 or more employees ⁶	Number.....	55	49	+12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE. Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS. Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Dental Equipment and Supplies Industry includes establishments engaged primarily in the manufacture of dental instruments, mechanical devices, and other equipment and supplies for use by dentists. Dental laboratories making dentures and artificial teeth to order for the dental profession are classified in service industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Dental Equipment and Supplies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Dental Equipment and Supplies Industry amounted to \$116 million. Of this total, \$102 million were products primary to the industry, \$5 million were products primary to other industries, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was also 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in Table 3, indicates that \$111 million of Dental Equipment and Supplies were shipped by all producers of these products. Of this total, \$102 million, or 92 percent, were shipped by plants classified in Industry 3843, Dental Equipment and Supplies while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE DENTAL EQUIPMENT AND SUPPLIES INDUSTRY (S.I.C. CODE 3843) IN THE UNITED STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,240	34,766	5,225	10,320	21,068	68,497	71,548	115,622	1,745	55	7,103	51,154
New England.....	551	2,610	388	828	1,581	4,221	4,429	7,919	186	3	312	1,727
Middle Atlantic.....	4,077	19,583	3,101	6,059	12,796	41,644	43,083	68,705	1,129	25	4,362	33,231
New York.....	2,317	12,629	1,636	3,235	7,818	24,673	26,250	45,361	829	13	2,440	18,793
North Central.....	1,615	7,999	1,096	2,172	4,492	13,298	13,974	22,244	161	17	1,688	10,789
Ohio.....	596	2,841	421	807	1,764	4,768	4,724	7,363	36	6	666	4,282
Illinois.....	687	3,452	468	927	1,909	5,385	6,183	9,315	49	9	657	3,672
South.....	530	2,272	344	702	1,079	4,554	4,948	7,466	141	5	435	2,618
West.....	467	2,302	296	559	1,120	4,780	5,114	9,288	128	5	304	2,787

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF DENTAL EQUIPMENT AND SUPPLIES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Dental Equipment and Supplies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity	Value	Quantity	Value
		(1,000 units)	(\$1,000)	(1,000 units)	(\$1,000)
3843---	Dental equipment and supplies, total.....	xxx	110,636	xxx	79,482
	Dental metals ¹ :	(1,000 troy oz.)		(1,000 troy oz.)	
3843011	Precious.....	xxx	17,998	420	15,389
3843015	Nonprecious.....	xxx		xxx	498
3843021	Dental alloys for amalgams.....	950	1,505	1,468	2,034
	Teeth (exclude dentures):	(1,000 teeth)		(1,000 teeth)	
3843031	Porcelain.....	64,882	10,439	74,975	10,571
3843035	Resinous.....	20,726	3,461	17,804	2,132
3843041	Denture materials.....	...	4,290	xxx	2,639
3843047	Dental professional equipment (including dental chairs equipment units, cabinets, lights, etc.).....	xxx	24,906	xxx	14,183
3843051	Dental laboratory equipment (including furnaces, casting machines, lathes, benches, polishing units, flasks, blow pipes, presses, etc.).....	xxx	2,988	xxx	2,368
3843057	Dental hand instruments (forceps and pliers, broaches cutting instruments, etc.).....	xxx	10,192	xxx	3,958
3843061	Burrs, diamond points, abrasive points, wheels, disks, and similar tools for use with hand pieces.....	xxx	6,198	xxx	4,610
3843071	Waxes, cements, dental gypsums, impression materials, and other consumable supplies including low-fusing alloys.....	xxx	12,229	xxx	11,801
3843098	Other dental products including dental sterilizers (excluding X-ray equipment).....	xxx	6,000	xxx	4,391
3843000	Dental instruments, equipment and supplies, not specified by kind.....	xxx	10,430	xxx	4,908

xxx Not applicable.

¹Precious and nonprecious dental metals were combined in 1958 to avoid disclosing operations of individual companies.

DEPARTMENT OF COMMERCE
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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -38A-4

OPHTHALMIC GOODS INDUSTRY

(Industry Code 3851—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Ophthalmic Goods Industry shipped products valued at \$194 million, an increase of 22 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufacture conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 2 percent from 1954 to 1958 to a total of 18.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$136 million in 1958, an increase of 27 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE OPHTHALMIC GOODS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3851)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	18.2	18.5	-2
Payroll.....	Million dollars...	71.3	64.5	+10
Production workers:				
Number.....	Thousands.....	15.3	15.4	-1
Man-hours.....	Millions.....	30.2	30.0	+1
Wages.....	Million dollars...	53.5	48.3	+11
Value added by manufacture, unadjusted ².....	..do.....	131.1	110.5	+19
Value added by manufacture, adjusted ³.....	..do.....	136.3	107.1	+27
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	62.0	48.3	+28
Value of shipments ⁵.....	..do.....	194.0	159.1	+22
Capital expenditures, new.....	..do.....	5.4	5.0	+8
Number of establishments with 20 or more employees ⁶	Number.....	103	101	+2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Ophthalmic Goods Industry includes establishments engaged primarily in grinding ophthalmic lenses, and in manufacturing other ophthalmic goods such as eyeglass frames or fittings. Other products of this industry are industrial goggles; eye protectors; mountings and parts for frames and goggles; sun or glare glasses and goggles and sun glass frames. Retail establishments fitting eyeglasses to individual order and establishments primarily engaged in grinding lenses to prescription order and in the sale of other ophthalmic supplies are classified in trade industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Ophthalmic Goods Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Ophthalmic Goods Industry amounted to \$194 million. Of this total, \$166 million were products primary to the industry, \$23 million were products primary to other industries, and \$5

million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$168 million of Ophthalmic Goods were shipped by all producers of these products. Of this total, \$166 million, or 98 percent, were shipped by plants classified in Industry 3851, Ophthalmic Goods, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE OPHTHALMIC GOODS INDUSTRY (S.I.C. CODE 3851) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	18,198	71,324	15,257	30,167	53,469	131,138	136,266	194,029	5,356	103	18,464	110,452
New England.....	4,681	16,863	4,203	8,155	13,249	41,871	41,707	55,533	1,662	21	4,586	32,416
Middle Atlantic.....	9,872	42,127	7,957	15,878	31,035	69,495	74,108	106,534	2,504	54	10,814	63,284
New York.....	8,190	35,317	6,684	13,341	26,552	55,866	60,399	83,836	2,093	40	9,027	53,527
East North Central.....	674	2,800	550	1,091	2,088	5,340	5,141	8,009	131	5	782	4,764
West North Central.....	664	2,375	571	1,130	1,815	3,686	3,848	6,413	306	11	510	2,739
Missouri.....	424	1,628	354	708	1,202	2,071	2,218	3,982	59	6	349	1,827
South.....	2,138	6,537	1,837	3,681	4,813	9,773	10,507	15,991	697	9	586	6,123
Florida.....	324	1,145	303	607	929	1,480	1,881	3,001	257	3	184	770
West.....	169	622	139	232	469	973	955	1,549	56	3	183	1,124

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

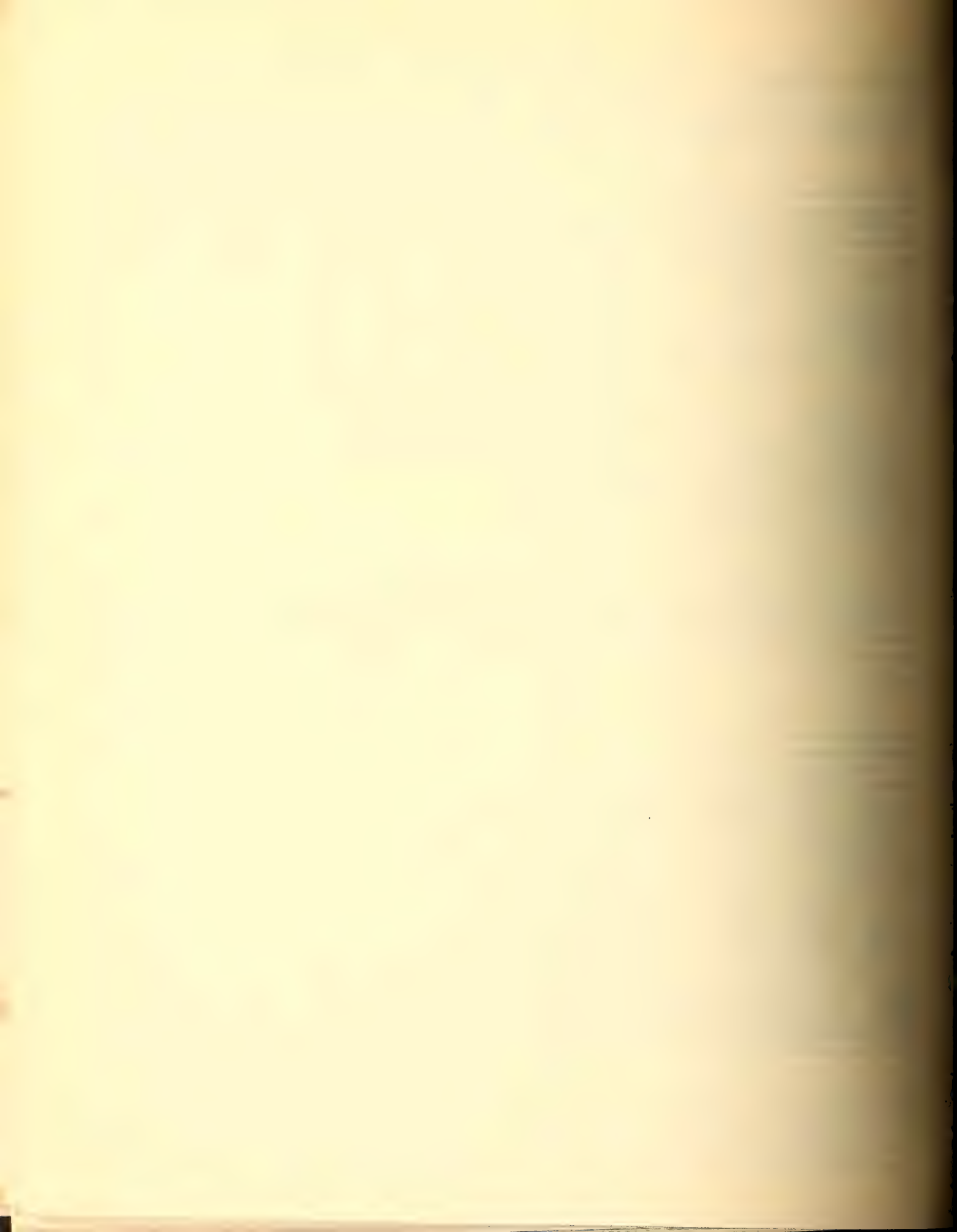
⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF OPHTHALMIC GOODS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Ophthalmic Goods Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total production			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3851---	Ophthalmic goods, total.....	.....	xxx	168,319	xxx	136,482
3851012	Ophthalmic fronts and temples finished:					
	Gold filled fronts, full rimmed or semi-rimmed (with or without decoration).....	Thousand units.....	1,124	2,753	xxx	56,140
3851014	Aluminum or other metal fronts (with or without decoration)....	do.....	708	1,702		
3851015	Plastic fronts (with or without decoration).....	do.....	19,208	20,027		
3851016	Combination fronts (with or without decoration).....	do.....	7,116	16,747		
3851017	Temples (all types).....	Thousand pairs.....	26,144	25,736		
3851018	Centers, oxfords, parts, trim, unfinished fronts and temples etc.	.....	...	7,523		
3851024	Ophthalmic spectacles and eyeglasses (frames and mountings of all types when sold with corrective lenses inserted-with or without decorations).....	Thousand units.....	2,468	3,500		
3851032	Ophthalmic focus lenses:					
	Single vision lenses (ground and polished and moulded blanks)...	Thousand pairs.....	14,413	13,516	31,752	14,966
3851035	Multifocal lenses (bifocals and trifocals; finished and semi-finished and moulded blanks).....	do.....	15,165	28,098	14,742	21,665
3851041	Industrial goggles, eye protectors, mountings and parts.....	.....	xxx	13,923	xxx	10,340
3851051	Sun or glare glasses and sun goggles, complete.....	Thousand units.....	13,715	14,445	23,620	16,399
3851098	Other ophthalmic goods, instruments, sun glass frames, and accessories (simple readers and magnifiers, holders, etc.).....	.....	...	9,086	xxx	11,515
3851000	Ophthalmic goods, not specified by kind.....	.....	xxx	11,263	xxx	5,457

xxx Not applicable.



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-38A-5

OPTICAL INSTRUMENTS AND LENSES INDUSTRY

(Industry Code 3831--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Optical Instruments and Lenses Industry shipped products valued at \$109 million, an increase of 30 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 15 percent from 1954 to 1958 to a total of 7.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$63 million in 1958, an increase of 10 percent from 1954 when the previous census was taken. Value added is derived

by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE OPTICAL INSTRUMENTS AND LENSES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3831)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	7.4	8.7	-15
Payroll.....	Million dollars...	38.4	38.4	-
Production workers:				
Number.....	Thousands.....	5.3	6.7	-21
Man-hours.....	Millions.....	12.5	13.4	-7
Wages.....	Million dollars...	24.4	25.6	-5
Value added by manufacture, unadjusted ².....	..do.....	61.3	57.9	+6
Value added by manufacture, adjusted ³.....	..do.....	62.9	57.3	+10
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	45.8	24.9	+84
Value of shipments ⁵.....	..do.....	108.6	83.3	+30
Capital expenditures, new.....	..do.....	3.5	3.8	-8
Number of establishments with 20 or more employees ⁶	Number.....	58	61	-5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

This Industry includes establishments engaged primarily in grinding optical lenses and prisms, and in manufacturing microscopes, telescopes, field and opera glasses and related optical instruments such as refractometers, spectrometers, spectroscopes, colorimeters, polariscopes, and optical measuring instruments. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings, are classified in Industry 3851, and those engaged in manufacturing sighting and fire-control instruments, but not engaged in manufacturing optical components, in Industry 1941. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Optical Instruments and Lenses Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Optical Instruments and Lenses Industry amounted to \$109 million. Of this total, \$87 million were products primary to the industry. Virtually all of the remainder represented shipments of products classified in other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$122 million of optical instruments and lenses were shipped by all producers of these products. Of this total, \$87 million, or 72 percent, were shipped by plants classified in Industry 3831, Optical Instruments and Lenses, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE OPTICAL INSTRUMENTS AND LENSES INDUSTRY (S.I.C. CODE 3831) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	7,357	38,406	5,322	12,510	24,359	61,313	62,909	108,600	3,488	58	8,749	57,326
New England.....	2,138	12,534	1,260	2,635	6,126	18,748	19,610	34,651	1,726	12	1,501	11,871
Middle Atlantic.....	3,010	15,066	2,342	4,834	10,620	21,840	22,601	42,229	897	19	4,063	24,569
New York.....	2,599	12,942	1,993	3,961	8,870	19,138	20,242	38,144	839	14	3,703	22,808
Pennsylvania.....	346	1,794	295	753	1,483	2,155	1,823	3,217	33	4	242	1,079
North Central.....	981	4,607	739	1,442	3,143	7,328	7,294	10,260	506	11	1,248	7,271
Illinois.....	697	3,422	526	1,033	2,325	5,228	5,162	6,945	419	6	909	5,189
South.....	325	1,373	265	520	986	4,364	4,371	5,599	40	4	521	4,116
West.....	903	4,826	716	3,079	3,484	9,033	9,033	15,861	319	12	1,414	10,075
California.....	855	4,580	686	3,008	3,321	8,680	8,691	14,850	308	11	1,372	9,728

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF OPTICAL INSTRUMENTS AND LENSES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Optical Instruments and Lenses Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3831----	Optical instruments and lenses, total.....	122,116	*117,574
38310--	Optical instruments and lenses:		
3831011	Photographic and projection lenses and photographic prisms for sale separately.....	16,116	*26,998
3831031	Field glasses, prismatic and nonprismatic; terrestrial and celestial telescopes.....	4,974	9,741
3831051	Microprojectors and photomicrographic equipment.....	(D)	977
3831053	Microscopes.....	(D)	6,854
3831071	Optical measuring instruments (refractometers, colorimeters, spectrometers, spectrographs, spectrophotometers, polariscopes, contour projectors, metallographic equipment, etc.).....	27,540	20,719
3831098	Other optical instruments, lenses, parts and accessories.....	55,812	*52,285
3831000	Optical instruments and lenses, not specified by kind.....	9,388	(NA)

*Revised.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

U. S. DEPARTMENT OF COMMERCE
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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-38A-6

SCIENTIFIC INSTRUMENTS INDUSTRY

(Industry Code 3811--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Scientific Instruments Industry shipped products valued at \$946 million, an increase of 57 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 40 percent from 1954 to 1958 to a total of 63.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$575 million in 1958, an increase of 69 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SCIENTIFIC INSTRUMENTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3811)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	63.5	45.3	+40
Payroll.....	Million dollars...	381.5	217.8	+75
Production workers:				
Number.....	Thousands.....	40.3	30.8	+31
Man-hours.....	Millions.....	82.2	64.3	+28
Wages.....	Million dollars...	211.5	134.8	+57
Value added by manufacture, unadjusted ².....	...do.....	563.7	356.7	+58
Value added by manufacture, adjusted ³.....	...do.....	575.2	340.1	+69
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	378.2	240.2	+58
Value of shipments ⁵.....	...do.....	945.5	603.9	+57
Capital expenditures, new.....	...do.....	24.9	8.6	+190
Number of establishments with 20 or more employees ⁶	Number.....	176	131	+34

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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This Industry comprises establishments primarily engaged in manufacturing laboratory, scientific, and engineering instruments such as nautical, navigational, aeronautical, surveying, drafting, mathematical instruments, and instruments, for laboratory work and scientific research (except microscopes and telescopes--Industry 3831, Optical Instruments and Lenses). Important products of this industry include aircraft flight instruments and automatic pilots, surveying and drafting instruments including transits, slide rules, planimeters, integrators, etc.; and miscellaneous types of laboratory and scientific instruments. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments; dental instruments and equipment in Industry 3843, Surgical Appliances and Supplies; mechanical measuring and controlling instruments in Industry 3821, Mechanical Measuring Instruments; machinists' precision measuring tools in Industry 3545, Metalworking Machinery Attachments; and instruments for indicating, measuring, and recording electrical quantities and characteristics in Industry 3613, Electrical Measuring Instruments. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Scientific Instruments Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Scientific Instruments Industry amounted to \$946 million. Of this total, \$656 million were products primary to the industry, \$168

million were products primary to other industries, and \$122 million were receipts for miscellaneous activities. The industry shipments of primary products represented 80 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 77 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$905 million of Scientific Instruments were shipped by all producers of these products. Of this total, \$656 million, or 72 percent, were shipped by plants classified in Industry 3811, Scientific Instruments, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE SCIENTIFIC INSTRUMENTS INDUSTRY (SIC CODE 3811) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	63,542	381,507	40,327	82,168	211,528	563,692	575,240	945,545	24,923	176	45,315	356,713
New England.....	4,139	20,394	2,813	5,704	12,960	33,318	33,643	49,020	2,910	21	3,559	26,785
Massachusetts.....	2,724	15,079	2,021	4,344	9,976	25,110	24,209	35,624	2,661	13	2,387	16,514
Middle Atlantic.....	30,273	187,316	19,280	38,391	105,182	273,186	273,625	486,245	6,518	50	20,207	151,642
New York.....	14,790	95,089	8,920	17,714	49,177	142,858	146,408	282,881	2,479	22	5,404	36,524
New Jersey.....	13,614	83,659	9,155	18,181	50,764	115,311	111,646	177,315	3,548	15	12,321	94,034
Pennsylvania.....	1,869	8,568	1,205	2,496	5,241	14,997	15,571	26,049	491	13	2,481	21,082
East North Central.....	11,668	73,700	7,668	16,398	42,606	111,778	120,363	188,512	7,260	31	8,403	71,671
Ohio.....	422	2,035	281	539	1,070	4,046	4,042	6,521	73	6	312	1,790
Illinois.....	2,079	11,562	1,464	3,069	7,199	19,569	21,278	31,904	719	15	2,118	14,104
West North Central.....	6,561	38,530	3,295	6,671	16,229	55,363	51,533	76,936	759	7	6,947	57,961
South.....	5,139	26,856	3,366	7,128	14,973	34,073	36,050	55,542	5,378	27	2,751	19,437
Maryland.....	1,486	7,597	1,009	2,116	4,705	10,434	10,933	18,052	(D)	6	1,095	6,947
Texas.....	2,193	11,818	1,337	2,814	6,067	15,268	15,795	23,510	1,489	11	720	6,023
Mountain.....	453	2,756	318	648	1,493	4,272	5,398	7,436	198	2	72	508
Pacific.....	5,309	31,955	3,587	7,228	18,085	51,722	54,628	81,854	1,900	38	3,374	28,705
California.....	5,254	31,675	3,544	7,149	17,872	51,189	54,096	81,080	1,880	37	3,154	27,261

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF SCIENTIFIC INSTRUMENTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Scientific Instruments Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3811---	Scientific instruments, total.....	905,145	644,457
38111--	Aircraft, nautical, and navigational instruments, except aircraft.....	680,524	536,932
	Engine and panel type instruments:		
3811111	Flight instruments and automatic pilot (excluding gyroscopes).....	211,183	
	Gyroscopes (for all navigational purposes):		
3811121	Vertical.....	18,173	
3811123	Directional.....	5,076	
3811125	Free, torqued and untorqued.....	1,602	394,025
3811127	Rate.....	16,443	
3811141	Integrating rate (nonfloated) and fully floated.....	9,489	
3811143			
3811198	Other nautical and navigational instruments.....	411,804	142,907
3811100	Nautical and navigational instruments, not specified by kind.....	6,754	(NA)
3811211	Surveying and drafting instruments and apparatus except optical (including surveying instruments, transits, drawing instruments, drafting machines, slide rules, planimeters, integrators, photogrammetric equipment, etc.).....	23,553	17,907
3811260			
3811200			
3811311	Other laboratory and scientific instruments (excluding aircraft, nautical, and navigational instruments and apparatus, electrical quantity measuring instruments and industrial process instruments).....	185,461	89,618
3811000	Scientific instruments, not specified by kind.....	15,607	(NA)

NA Not available.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-38A-7

MECHANICAL MEASURING INSTRUMENTS INDUSTRY

(Industry Code 3821--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Mechanical Measuring Instruments Industry shipped products valued at \$1,061 million, an increase of 28 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 6 percent from 1954 to 1958 to a total of 73 thousand employees in 1958. Value added by manufacture in the industry amounted to \$698 million in 1958, an increase of 29 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MECHANICAL MEASURING INSTRUMENTS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3821)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	73.3	69.4	+6
Payroll.....	Million dollars...	376.3	302.6	+24
Production workers:				
Number.....	Thousands.....	48.7	48.2	+1
Man-hours.....	Millions.....	97.1	97.9	-1
Wages.....	Million dollars...	219.2	189.9	+15
Value added by manufacture, unadjusted ².....	..do.....	691.6	542.6	+27
Value added by manufacture, adjusted ³.....	..do.....	698.4	542.7	+29
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	357.7	278.0	+29
Value of shipments ⁵.....	..do.....	1,060.6	826.5	+28
Capital expenditures, new.....	..do.....	23.6	21.5	+10
Number of establishments with 20 or more employees ⁶	Number.....	265	223	+19

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Mechanical Measuring Instruments Industry includes establishments engaged primarily in the manufacture of mechanical instruments for indicating, recording, measuring, and controlling temperature, pressure, mechanical, motion, rotation, flow, liquid level, humidity, density, acidity, alkalinity, and combustion; dial pressure gauges; physical-property testing apparatus such as hardness, tension, compression torsion, ductility, and elasticity testing apparatus; and instruments for household and office use such as thermometers, barometers and rain gauges. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics are classified in industry 3613, Electrical Measuring Instruments; watches and clocks in Industry 3871, Watches and Clocks; and measuring and dispensing pumps in Industry 3586, Measuring and Dispensing Pumps. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Mechanical Measuring Instruments Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified

in the Mechanical Measuring Instruments Industry amounted to \$1,061 million. Of this total, \$875 million were products primary to the industry \$116 million were products primary to other industries, and \$70 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,057 million of mechanical measuring instruments were shipped by all producers of these products. Of this total, \$875 million, or 83 percent, were shipped by plants classified in Industry 3821, Mechanical Measuring Instruments while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE MECHANICAL MEASURING INSTRUMENTS INDUSTRY (S.I.C. CODE 3821) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	73,334	376,329	48,696	97,134	219,176	691,585	698,403	1,060,593	23,627	265	69,422	542,602
New England.....	13,743	69,725	8,502	17,190	36,929	121,086	122,293	190,008	4,385	39	10,772	84,573
Connecticut.....	5,368	28,415	3,447	7,070	16,537	51,870	51,177	77,863	1,658	17	4,327	37,393
Middle Atlantic.....	22,101	114,872	14,864	29,006	68,385	201,673	196,657	306,290	9,041	83	22,155	165,478
New York.....	6,559	33,044	4,799	9,425	21,961	58,538	55,434	87,185	890	35	6,893	54,709
New Jersey.....	2,250	10,467	1,672	3,276	6,796	18,586	19,526	28,637	493	19	1,864	14,070
Pennsylvania.....	13,292	71,361	8,393	16,305	39,728	124,549	121,697	190,468	7,658	29	13,397	96,699
East North Central.....	19,332	96,735	12,543	24,766	54,608	183,056	187,323	289,661	4,562	76	19,508	150,877
Ohio.....	5,984	29,769	3,739	7,581	15,674	50,648	50,284	83,684	1,565	30	5,447	37,180
Indiana.....	1,625	7,337	1,294	2,483	5,343	14,773	14,961	21,711	358	4	1,642	14,865
Illinois.....	7,562	37,318	4,676	9,059	20,169	81,132	86,401	121,323	1,781	26	6,828	58,102
Michigan.....	1,801	10,365	1,121	2,299	5,750	15,446	14,304	27,602	241	10	3,354	23,975
Wisconsin.....	2,360	11,946	1,713	3,344	7,672	21,057	21,373	33,341	617	6	2,235	16,755
West North Central.....	7,339	37,710	4,676	9,541	20,268	77,353	79,620	109,165	1,714	7	7,867	68,977
Missouri.....	924	5,394	544	1,168	3,015	9,892	11,660	18,078	244	3	1,598	15,168
South.....	2,735	13,061	1,972	4,015	8,543	26,684	26,039	41,785	811	20	2,921	20,713
Texas.....	465	2,183	338	746	1,367	6,392	6,552	11,838	117	7	224	2,624
West.....	8,084	44,226	6,139	12,616	30,443	81,733	86,471	123,684	3,114	40	6,197	51,980

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF MECHANICAL MEASURING INSTRUMENTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Mechanical Measuring Instruments Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3821---	Mechanical measuring instruments, total.....	xxx	1,056,830	xxx	856,318
3821111	Aircraft engine instruments.....	xxx	55,416	xxx	80,454
38212--	Integrating meters, other than electrical.....	xxx	119,358	xxx	107,472
3821211	Gas meters.....	1,232	40,806	1,609	37,840
3821231	Water meters.....	1,247	47,886	1,352	37,298
3821298	Other liquid meters, including gasoline dispensing ¹	xxx	30,412	xxx	32,334
3821200	Integrating meters, other than electrical, not specified by kind..	xxx	254	(NA)	(NA)
38213--	Industrial process instruments, including indicating, non-indicating, recording and controlling instruments.....	xxx	392,846	xxx	280,832
	Temperature:				
	Thermometers (glass stem and bi-metal):				
3821311	Industrial and laboratory.....	xxx	10,194	xxx	11,347
3821313	Clinical.....	9,977	6,698	10,789	6,320
3821315	Household.....	14,792	11,258	13,642	6,809
3821319	Pyrometers.....	xxx	27,994		
3821322	Other temperature instruments (including filled system thermometers).....	xxx	27,363	xxx	55,269
	Pressure and vacuum:				
3821333	Nontransmission.....	xxx	33,875		
3821335	Pneumatic transmission.....	xxx	12,754	xxx	44,901
3821337	Electric transmission.....	xxx	6,539		
	Fluid flow and liquid level:				
3821343	Nontransmission.....	xxx	26,349		
3821345	Pneumatic transmission.....	xxx	14,487	xxx	46,334
3821347	Electric transmission.....	xxx	13,159		
3821348	Gas and chemical analysis.....	xxx	9,847		
3821349	Humidity.....	xxx	1,215	xxx	(2)
3821351	Physical properties testing and inspection equipment, including hardness, strength of materials, thickness wear, abrasion, and similar testers.....	xxx	34,649	xxx	21,611
3821398	Other industrial process instruments.....	xxx	136,997	xxx	288,241
3821300	Industrial process instruments, not specified by kind.....	xxx	19,468	(NA)	(NA)
38214--	Motor vehicle indicating instruments, except electric.....	xxx	70,787	xxx	76,401
3821411	Speedometers for motor vehicles ²			8,585	28,774
3821498	Other motor vehicle indicating instruments, except electric (fuel level, oil pressure, etc.).....	xxx	70,477	xxx	47,627
3821400	Motor vehicles indicating instruments, except electric, not specified by kind.....	xxx	310	xxx	(NA)
3821511	Automatic temperature controls, activated by pressure, temperature, level, flow, time, or humidity (including pneumatic controls) of the type principally used as components of air-conditioning, refrigeration, and comfort heating, or as components of major household appliances.....	xxx	319,855	xxx	259,669
38216--	Other mechanical measuring instruments.....	xxx	78,676	xxx	51,490
3821613	Nuclear radiation detection instruments (including geiger counters, scintillation counters, etc.).....	xxx	19,922		
3821651	Other mechanical measuring instruments.....	xxx	52,760	xxx	51,490
3821600	Other mechanical measuring instruments, not specified by kind....	xxx	5,994		
3821000	Mechanical measuring instruments, not specified by kind.....	xxx	19,892	xxx	(NA)

NA Not available.

xxx Not applicable.

¹Includes some gas and water meters shipped unassembled from the factory.

²In 1954 humidity instruments were part of code 3821398.

³Excludes some speedometers produced by plants of motor vehicle companies for incorporation into automobiles and trucks of their own assembly.

⁴1958 Shipments of nuclear radiation detection instruments were reported in greater detail in the Atomic Energy Products Annual Survey M88Q-08. Shipments of radiation survey, monitoring, and control devices were valued at \$13,846 thousand; shipments of radiation counting equipment were valued at \$10,387 thousand. Because of differences in reporting techniques in the 1958 Census of Manufactures, it is likely that additional amounts of nuclear detection instruments are included in the value of shipments reported in product code 3821600, "Other mechanical instruments not specified by kind," and in product code 3821000, "Mechanical measuring instruments not specified by kind."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-38B-1

PHOTOGRAPHIC EQUIPMENT AND SUPPLIES INDUSTRY

(Industry Code 3861—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Photographic Equipment and Supplies Industry shipped products valued at \$1,223 million, an increase of 27 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 3 percent from 1954 to 1958 to a total of 61.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$808 million in 1958, an increase of 36 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PHOTOGRAPHIC EQUIPMENT AND SUPPLIES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3861)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	61.2	*63.0	-3
Payroll.....	Million dollars...	375.8	*308.3	+22
Production workers:				
Number.....	Thousands.....	39.3	*43.8	-10
Man-hours.....	Millions.....	76.4	*86.2	-11
Wages.....	Million dollars...	206.8	*189.7	+9
Value added by manufacture, unadjusted ²	do.....	778.7	*589.7	+32
Value added by manufacture, adjusted ³	do.....	807.8	*593.3	+36
Cost of materials, fuel, electricity, and contract work ⁴	do.....	411.7	*354.7	+16
Value of shipments ⁵	do.....	1223.3	*960.2	+27
Capital expenditures, new.....	do.....	47.4	*38.7	+21
Number of establishments with 20 or more employees ⁶	Number.....	158	150	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

*Revised.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

This Industry includes establishments engaged primarily in the manufacture of photographic apparatus, equipment, and supplies. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), paper mats, mounts, easels, and folders, are classified in Major Group 26; chemicals for photographic or technical purposes in Major Group 28; photographic glass in Major Group 32; and photographic lenses in Industry 3831. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Photographic Equipment and Supplies Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Photographic Equipment and Supplies Industry amounted to \$1,223 million. Of this total, \$1,005 million were products primary to the industry, \$35 million were products primary to other industries, and \$183 million were receipts for miscellaneous

activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary).

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,059 million of photographic equipment and supplies were shipped by all producers of these products. Of this total, \$1,005 million, or 95 percent, were shipped by plants classified in Industry 3861, Photographic Equipment and Supplies, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE PHOTOGRAPHIC EQUIPMENT AND SUPPLIES INDUSTRY (S.I.C. CODE 3861) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	61,247	375,768	39,299	76,351	206,766	778,674	807,815	1,223,314	47,390	158	63,008	589,715
New England.....	3,770	18,685	2,581	5,285	11,398	35,147	57,777	101,240	4,070	10	2,077	13,911
Massachusetts.....	2,938	14,929	1,956	4,045	8,930	27,752	50,522	89,813	(D)	5	1,795	11,838
Middle Atlantic.....	43,309	281,229	27,000	50,777	149,262	607,222	613,779	861,689	37,308	67	47,152	463,384
New York.....	39,742	261,275	24,473	45,879	137,595	572,797	579,802	794,365	31,889	51	42,742	432,100
New Jersey.....	3,212	18,384	2,266	4,399	10,725	31,871	30,992	59,512	(D)	11	4,024	28,843
Pennsylvania.....	355	1,570	261	499	942	2,554	2,985	7,812	173	5	386	2,441
East North Central.....	10,045	53,484	6,640	14,024	31,246	96,498	96,992	187,379	3,968	41	10,603	86,838
Ohio.....	273	1,420	199	459	892	2,685	2,783	5,095	215	3	356	3,092
Illinois.....	7,903	42,176	5,234	11,092	24,725	76,785	76,295	147,511	3,122	29	7,998	63,190
Michigan.....	1,358	7,708	845	1,714	4,311	13,985	14,936	27,837	481	5	1,698	17,102
Wisconsin.....	311	1,375	203	401	766	1,404	1,308	4,021	125	3	499	3,200
West North Central.....	843	3,712	693	1,295	2,594	8,881	8,951	17,730	332	7	709	5,610
Minnesota.....	502	2,156	407	712	1,453	5,505	5,737	10,044	279	2	443	2,565
South Atlantic.....	150	789	89	159	327	1,026	1,154	2,252	624	4	55	276
West South Central.....	181	847	114	227	498	1,552	1,868	4,458	36	2	87	450
Mountain.....	117	571	105	204	481	995	861	1,659	16	1	417	2,280
Pacific.....	2,832	16,451	2,077	4,380	10,960	27,353	26,433	46,907	1,036	26	1,904	16,963
California.....	2,477	14,555	1,865	3,921	9,936	23,567	22,709	40,419	827	25	1,600	13,113

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Photographic Equipment and Supplies Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3861---	Photographic equipment and supplies.....		xxx	1,059,111	xxx	772,919
38611--	Still picture equipment (excluding photocopying, microfilming, blueprinting, Vandyke, and whiteprinting).....		xxx	190,518	xxx	170,687
	Still cameras:					
	Hand type cameras:					
	Variable focus (or focusing type) with adjustable shutter speeds:					
	Using roll film, 35mm or under:					
3861111	Stereoscopic.....	Number of units...	8,479	360	79,929	4,251
3861113	All other.....	.....do.....	231,180	8,879	457,996	12,894
3861115	Using roll film or paper, over 35mm.....	.....do.....	535,934	34,578	*340,901	*8,476
3861117	Using sheet and pack film.....	.....do.....				
3861119	Other hand types (fixed focus and/or time and single shutter speed) using roll film.....	.....do.....	(2)	(2)	*3,571,602	*18,277
	Process cameras for photoengraving and photolithography: ¹					
3861121	Cameras, under 31" x 31".....	.....do.....	814	2,767	646	1,368
3861125	Cameras, 31" x 31" and over.....	.....do.....			89	641
3861131	Other still cameras, including view and studio for tripod or stand but excluding photocopying, microfilming, blueprinting, Vandyke, and whiteprinting.....		xxx	6,032	xxx	34,664
	Flash units (except built-in):					
	Electronic (stroboscopic):					
3861142	Portable, battery operated.....	.....do.....	57,970	2,503	(2)	(2)
3861145	Studio type.....	.....do.....	(2)	(2)		
3861147	Nonelectronic (using disposable flash bulb).....	Number of units...	1,425,341	7,005		
3861155	Photographic exposure meters, complete (except built-ins).....	.....do.....	(2)	(2)		

See footnotes at end of table.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES MADE BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954—Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3861---	Photographic equipment and supplies—Continued					
	Projectors:					
3861161	Slide film.....	.....do.....	520,128	18,132	xxx	18,356
3861165	Strip film (including combination slide and strip).....	.....do.....	134,766	5,962	xxx	
3861167	Other (including opaque).....	.....do.....	(2)	(2)	xxx	
3861171	Still picture commercial photo finishing equipment, all types, including developing machines, continuous printing machines and motor operated print washers and dryers.....		xxx	17,583	(2)	(2)
3861181	Enlargers.....	Number of heads...	23,859	2,084	41,682	2,630
3861198	Other still picture equipment, parts, attachments and accessories (excluding lenses for sale separately).....		xxx	270,160	xxx	* 265,889
3861100	Still picture equipment (excluding photocopying, microfilming, blueprinting, Vandyke and whiteprinting), not specified by kind.....		xxx	14,473	xxx	3,241
38612--	Photocopying and microfilming equipment.....		xxx	42,729	xxx	27,003
	Photocopying equipment:					
3861212	Contact and projection types (including all processes such as light, electrostatic and heat sensitive types).....		xxx	19,187	xxx	8,047
3861215	Microfilming equipment (including cameras, readers, and microfilming enlargers).....		xxx	7,713	xxx	6,314
3861221	Blueprinting, Vandyke, and whiteprinting equipment.....		xxx	15,829	xxx	12,642
3861225						
38613--	8mm and 16mm motion picture equipment.....		xxx	132,116	xxx	83,561
	Cameras:					
	16mm:					
3861312	Roll load.....	Number of units...	7,303	2,529	29,188	4,302
3861313	Magazine load.....	.....do.....	6,317	1,119		
	8mm:					
3861316	Roll load.....	.....do.....	1,093,730	45,620	443,396	17,373
3861317	Magazine load.....	.....do.....				
	Projectors:					
3861321	16mm sound:					
	Optical type only.....	.....do.....	42,619	12,183	37,864	15,054
3861325	Magnetic or combination types.....	.....do.....			9,125	4,419
3861331	16mm silent.....		9,865	1,251	14,786	1,593
3861341	8mm.....		684,606	36,082	273,273	15,450
3861351	Motion picture projection screens.....		xxx	(2)	xxx	9,561
3861361	Motion picture processing equipment, all types, including printing machines, developing machines and drying machines (excluding motion picture type equipment used for still picture work, and interchangeable types).....		xxx	1,423	xxx	15,809
3861398	8mm and 16mm motion picture parts, attachments, accessories, and other 8mm and 16mm miscellaneous motion picture equipment including sound recording (excluding lenses for sale separately).....		xxx	431,909		
38614--	35mm and over motion picture equipment.....		xxx	15,164	xxx	24,594
3861411	Cameras.....	Number of units...	310	1,824	469	1,469
	Projectors:					
3861421	Standard projector mechanisms (including unit-type projectors).....	.....do.....	(5)	(5)	1,949	1,691
3861425	Sound reproducing equipment.....		xxx	(5)	xxx	5,264
3861427	Arc lamphouses.....	Number of units...	(5)	(5)	1,693	527
3861498	35mm and over motion picture parts, attachments, accessories, and other 35mm and over miscellaneous motion picture equipment, including sound recording and studio equipment.....		xxx	511,185	xxx	14,173
3861400	35mm motion picture equipment, not specified by kind.....		xxx	2,155	xxx	1,110
38615--	Photographic sensitized film and plates.....		xxx	394,852	xxx	297,050
	Still picture black and white film:					
3861563	X-ray film.....	TSFSM (M) ⁶	218,316	78,453	185,601	63,035
3861564	Sheet film and pack film.....	.....do.....	26,986	18,866	31,290	17,846
3861565	Graphic arts film (requiring formaldehyde type developers).....	.....do.....	107,141	36,229	68,622	20,050
3861566	Photographic glass plates and slides.....	.....do.....	2,972	3,410	3,808	3,845
3861500	Other film, including motion picture black and white and color film, amateur roll film, still color film, aerofilm, microfilm, etc. ⁷.....	.....do.....	514,093	257,894	40,208	192,274
38616--	Sensitized photographic paper and cloth, silver halide type.....		xxx	119,807	xxx	78,846
3861611	Designed for continuous-tone reproduction (photo finishing portrait, etc.).....		TSFSM (M) ⁶	539,808	588,842	43,654
3861615	Designed for line reproduction, photocopying and recording.....		.....do.....	(NA)	675,917	35,192
38617--	Sensitized paper and cloth other than silver halide type.....		xxx	79,943	xxx	47,293
3861711	Blueprint type.....	TSFSM (M) ⁶	8,293	8,293	2,179,994	17,639
	Diazo type:					
3861713	Dry.....	.....do.....	856,136	40,631	2,646,010	26,496
3861715	Semi-moist.....	.....do.....	1,379,439	14,381		
3861721	Vandyke type.....	.....do.....	(NA)	1,141	149,830	2,363
3861751	Other types (including photographic paper and cloth for all other processes including heat sensitive photocopy types).....	.....do.....	(NA)	15,129	(NA)	(NA)
3861700	Sensitized paper and cloth, other than silver halide type, not specified by kind.....		xxx	368	xxx	795
3861811	Prepared photographic chemicals (developers, fixers, toners, and other chemicals specifically prepared and packaged for use in photography).....		xxx	34,131	xxx	19,755
3861000	Photographic equipment and supplies (largely fiber base, paper base, and other raw materials) not specified by kind.....		xxx	49,851	xxx	24,130

*Revised. NA Not available. xxx Not applicable. ⁴Values include stands and attachments shipped with process cameras. ²In 1954, flash units, exposure meters and still picture commercial photo finishing equipment were combined in Code 3861198. In 1958, fixed focus and/or time and single shutter speed hand type still cameras, studio type flash units, exposure meters, and projectors other than slide film and strip film were included in Code 3861198. ³Quantity figures include heads shipped separately, as well as complete units. Value figures include the values of heads shipped separately. ⁵In 1958, 35mm and over projectors were included in Code 3861498. ⁶Total square feet of sensitized material (in thousands). ⁷Motion picture film, amateur roll film, and other film were combined to avoid the disclosing of individual companies. Motion picture film was reported in linear feet by width and has been converted to TSFSM. Amateur roll film and other film were collected in TSFSM.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-38B-2

WATCHCASES INDUSTRY

(Industry Code 3872—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Watchcases Industry shipped products valued at \$34 million, a decrease of 3 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 32 percent from 1954 to 1958 to a total of 2.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$18 million in 1958, a decrease of 4 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE WATCHCASES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3872)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.6	3.8	-32
Payroll.....	Million dollars...	12.5	16.0	-22
Production workers:				
Number.....	Thousands.....	2.2	3.3	-33
Man-hours.....	Millions.....	4.3	6.6	-35
Wages.....	Million dollars...	9.4	12.8	-27
Value added by manufacture, unadjusted ²	do.....	19.5	20.2	-4
Value added by manufacture, adjusted ³	do.....	18.1	18.8	-4
Cost of materials, fuel, electricity, and contract work ⁴	do.....	14.7	15.0	-2
Value of shipments ⁵	do.....	34.2	35.2	-3
Capital expenditures, new.....	do.....	0.2	(NA)	(NA)
Number of establishments with 20 or more employees ⁶	Number.....	24	28	-14

NA Not available.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

This Industry comprises establishments primarily engaged in the manufacture of watchcases, for sale as such. Establishments primarily engaged in assembling complete watches by assembling purchased movements with watchcases of their own manufacture are classified in Industry 3871, Watches and Clocks. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Watchcases Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Watchcases Industry amounted to \$34 million. Of this total, \$27 million were products primary to the industry, \$6 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 80 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 86 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$28 million of watchcases were shipped by all producers of these products. Of this total, \$27 million, or 98 percent, were shipped by plants classified in Industry 3872, Watchcases, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE WATCHCASES INDUSTRY (S.I.C. CODE 3872) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	2,640	12,518	2,222	4,339	9,399	19,518	18,121	34,180	203	24	3,795	20,231
New England.....	934	4,429	786	1,603	3,370	7,435	6,516	12,488	74	4	575	2,649
All other divisions...	1,706	8,089	1,436	2,736	6,029	12,083	11,605	21,692	129	20	3,220	17,582
New York.....	1,392	6,724	1,179	2,252	5,065	10,523	10,269	19,054	127	17	1,625	9,939

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF WATCHCASES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Watchcases Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total shipments including inter-plant transfers		Produced and consumed at the same establishment	Total shipments including inter-plant transfers		Produced and consumed at the same establishment
		Quantity (Number)	Value (\$1,000)		Quantity (Number)	Value (\$1,000)	
3872---	Watchcases.....	xxx	27,543	xxx	xxx	34,457	xxx
	For jeweled watch movement:						
	Men's wristwatch cases:						
3872011	Karat gold and platinum.....	162,699	2,313	16,400	321,852	4,332	(¹)
3872013	Gold filled.....	347,762	1,855	...	940,607	5,233	...
3872015	Rolled gold plate and sterling silver (including rolled gold plate with steel back)	790,783	3,019	...	1,619,177	4,114	...
3872019	Other metals.....	392,877	814	...	1,904,812	2,983	...
	Women's wristwatch cases:						
3872021	Karat gold and platinum.....	626,539	5,334	208,050	515,514	5,222	(¹)
3872023	Gold filled.....	239,796	993	(¹)	835,110	3,617	...
3872025	Rolled gold plate and sterling silver (including rolled gold plate with steel back)	1,491,528	3,787	...	2,279,234	5,132	...
3872029	Other metals.....	60,909	197	...	151,878	329	...
	For non-jeweled or pin-lever watch movements:						
	Wristwatch cases:						
3872051	Gold filled, rolled gold plate, and sterling silver (including rolled gold plate with steel back).....	498,660	909	1,989,396	424,711	300	2,665,941
3872059	Other metals.....						
3872071	Pocket and other watchcases (all qualities) ² ...	67,182	306	8,712,214	277,633	531	2,494,169
3872000	Watchcases, not specified by kind.....	xxx	8,016	...	xxx	2,664	...

xxx Not applicable.

¹Less than 10,000.

²Predominantly for pin-lever escapement type watches.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-38B-3

WATCHES AND CLOCKS INDUSTRY

(Industry Code 3871—SIC System in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufactures in the Watches and Clocks Industry shipped products valued at \$336 million, a decrease of 2 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of The Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 23.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$165 million in 1958, a decrease of 9 percent from 1954 when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

This Industry comprises establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clock-work-operated devices, and clocks and watch parts, except watch crystals. This Industry includes establishments primarily engaged in assembling clocks and watches from purchased

movements and cases. Establishments primarily engaged in manufacturing watchcases are classified in Industry 3872 Watchcases, glass crystals in Industry 3231, Products of Purchased Glass, and unbreakable crystals in Industry 3971, Plastics Products, N.E.C., time-recording clocks, time-stamp machines and watchmen's clocks in Industry 3579, Office and Store Machines, N.E.C. The purchase of complete watches and the attachment of straps or bands thereto is not considered a manufacturing activity and is included in the trade industries.

Establishments primarily engaged in Retail or Wholesale Trade which also assemble watches from purchased movements and purchased cases and the quantity and value of watches they assemble, are excluded from the Census of Manufactures and are classified in trade industries. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.



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ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Watches and Clocks Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Watches and Clocks Industry amounted to \$336 million. Of this total, \$283 million, were products primary to the industry, \$31 million were products primary to other industries, and \$22 million were receipts for miscellaneous activities. The industry shipments of primary products represented 90 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$298 million of watches, clocks, and parts were shipped by all producers of these products. Of this total, \$283 million, or 95 percent, were shipped by plants classified in Industry 3871, Watches and Clocks, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 1.—GENERAL STATISTICS FOR THE WATCHES AND CLOCKS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3871)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	23.7	25.7	-8
Payroll.....	Million dollars...	107.7	103.2	+4
Production workers:				
Number.....	Thousands.....	18.5	20.3	-9
Man-hours.....	Millions.....	36.5	39.1	-7
Wages.....	Million dollars...	71.5	68.0	+5
Value added by manufacture, unadjusted ².....	...do.....	174.2	179.1	-3
Value added by manufacture, adjusted ³.....	...do.....	164.9	181.9	-9
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	159.4	162.2	-2
Value of shipments ⁵.....	...do.....	335.5	343.8	-2
Capital expenditures, new.....	...do.....	4.6	3.5	+31
Number of establishments with 20 or more employees ⁶	Number.....	66	59	+12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 2.—GENERAL STATISTICS FOR THE WATCHES AND CLOCKS INDUSTRY (S.I.C. CODE 3871) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expendi- tures, new	No. of estab- lishments with 20 or more employ- ees ⁵	All em- ployees, number	Value added by manufac- ture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	23,727	107,743	18,498	36,526	71,500	174,205	164,879	335,489	4,611	66	25,708	179,069
New England.....	7,755	35,451	5,977	11,826	23,514	50,865	48,216	71,828	807	15	9,181	52,824
Massachusetts.....	2,502	12,363	1,690	3,493	7,368	23,109	22,952	32,245	420	6	2,536	17,468
Connecticut.....	5,253	23,088	4,287	8,333	16,146	27,756	25,264	39,583	387	9	6,645	35,356
All other divisions....	15,972	72,292	12,521	24,700	47,986	123,340	116,663	263,661	3,804	51	16,485	126,016
New York.....	3,474	20,698	2,367	4,699	10,422	39,025	34,324	106,053	905	19	3,664	42,477
Illinois.....	6,445	27,838	4,979	9,808	19,977	31,826	31,891	72,386	1,348	11	8,033	48,324

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF WATCHES AND CLOCKS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Watches and Clocks Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
3871—	Watches, clocks, and parts, total.....	xxx	298,354	xxx	293,353
38711—	Clocks.....	xxx	118,116	xxx	113,601
	Electric clocks, complete, frequency motor:				
3871111	Alarm (excluding clock timers and timing mechanisms).....	4,085,630	14,055	3,706,118	14,010
3871112	Household, wall, except alarm.....	3,024,279	10,499		
3871114	Household, all other, except alarm (including chime and strike, occasional, desk, mantel, and timers and switch clocks having hands and dials for telling time of day)....	3,056,634	11,459	6,446,825	21,145
3871115	Commercial (including office, factory, and school).....	323,454	2,333	199,615	1,264
	Spring wound and weight operated clocks:				
3871121	Alarm.....	7,453,900	20,889	8,198,255	19,867
3871122	Household and commercial, except alarm.....	xxx	2,599	xxx	3,176
3871127	Automobile clocks (including manual, self-winding and electric).....	2,071,469	9,444	4,125,918	18,823
3871131	Other clocks, complete (including tower, street, master magnet operated secondary clocks, chronometers, etc.).....	xxx	3,162	xxx	2,842
3871153	Clock movements, complete but not cased for timepiece use (including electric and spring wound).....	1,492,288	4,010	267,236	
	Timing mechanisms, not for timepiece use (including interval timers; mechanisms for parking meters, recording instruments timing and driving instruments, metronomes, and other devices but excluding time recording and time stamp machines:				
3871161	Electric.....	6,002,971	29,378	6,192,230	19,318
3871165	Spring wound.....	1,018,912	9,812	4,345,218	10,012
3871100	Clocks not specified by kind.....	xxx	476	xxx	2,536
38712—	Watches with domestic movements - jeweled lever escapement type..	xxx	304	xxx	51,424
	Men's wrist:				
3871212	17 jewels and under.....			351,245	7,505
3871219	Over 17 jewels.....	455,604	14,620	553,868	17,833
	Women's wrist:				
3871222	17 jewels and under.....				
3871229	Over 17 jewels.....	659,131	21,192	942,079	24,388
3871298	Other (including pockets, lapel, etc.).....	287,540	1,492	49,110	1,698
38713—	Watches with domestic movements - pin lever escapement type -				
	Jeweled and non-jeweled.....	xxx	35,536	xxx	16,462
3871311	Wrist.....	3,211,580	18,928	2,815,941	12,002
3871398	Other (including pocket, lapel, etc.).....	4,733,602	16,608	2,732,020	4,460
38714—	Watches with imported movements (all types).....	xxx	83,730	xxx	96,827
	Jeweled-lever escapement:				
	Men's wrist:				
3871412	17 jewels and under.....				
3871419	Over 17 jewels.....	1,821,445	39,618	2,107,801	47,169
	Women's wrist:				
3871422	17 jewels and under.....				
3871429	Over 17 jewels.....	1,644,816	34,968	2,071,253	46,773
3871439	Other (including pocket, lapel, etc.).....	13,823	281	20,025	431
3871462	Pin-lever escapement—all types.....	1,117,044	7,355	403,397	1,662
3871400	Watches with imported movements (all types), not specified by kind.....	xxx	1,508	xxx	772
38715—	Clocks and watch parts, except watch crystals.....	xxx	12,507	xxx	13,205
3871511	Clock cases and clock parts (excluding timing motors).....	xxx	3,188	xxx	3,993
3871531	Watch movements, complete, for sale separately (excluding those purchased and resold in the same condition) ²	xxx	6,691	288,297	3,724
3871551	Watch parts for sale separately ²	xxx		xxx	4,432
3871500	Clock and watch parts, except watch crystals, not specified by kind.....	xxx	2,628	xxx	1,056
3871000	Clocks, watches, and clock and watch parts, not specified by kind				
3871X00	Interplant transfers of clock and watch parts and semi-finished components.....	xxx	11,161	xxx	1,834

xxx Not applicable.

¹Includes chime and strike, occasional, desk, kitchen, mantel, wall, and timers and switch clocks having hands and dials for telling time of day.²Includes only watch parts and watch movements produced domestically, watch parts and watch movements imported by watch assemblers and resold in the same condition are excluded.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-38B-3

CHANGE SHEET

WATCHES AND CLOCKS INDUSTRY

(Industry Code 3871--SIC System in use through 1957)

The following changes should be made in the report for Watches and Clocks Industry, MC(P)-38B-3, April 1960.

Page	Table	Product code	Product	1958 total shipments including interplant transfers			
				Quantity (number of units)	Value (\$1,000)	Quantity (number of units)	Value (\$1,000)
				FROM		TO	
4	3	38712--	Watches with domestic movements - jeweled lever escapement type.....	xxx	304	xxx	36,956
		3871298	Other (including pockets, lapel, etc.).....	287,540	1,492	22,540	1,144
		38713--	Watches with domestic movements - pin lever escapement type - jeweled and non-jeweled.....	xxx	35,536	xxx	35,884
		3871311	Wrist.....	3,211,580	18,928	5,823,914	31,612
		3871398	Other (including pocket, lapel, etc.).....	4,733,602	16,608	2,386,263	4,272

xxx Not applicable.

USCOMM-DC



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

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April 1960

MC (P) -39A-1

JEWELERS' FINDINGS INDUSTRY

(Industry Code 3912--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Jewelers' Findings Industry shipped products valued at \$72 million, an increase of 2 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 5.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$34 million in 1958, an increase of 7 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS IN THE JEWELERS' FINDINGS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3912)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.1	5.4	-7
Payroll.....	Million dollars...	20.7	18.9	+10
Production workers:				
Number.....	Thousands.....	4.1	4.5	-9
Man-hours.....	Millions.....	8.0	9.3	-14
Wages.....	Million dollars...	14.0	13.4	+4
Value added by manufacture, unadjusted ².....	.....do.....	33.3	31.4	+6
Value added by manufacture, adjusted ³.....	.....do.....	33.5	31.4	+7
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	38.4	38.7	-1
Value of shipments ⁵.....	.....do.....	71.9	70.3	+2
Capital expenditures, new.....	.....do.....	0.7	1.6	-56
Number of establishments with 20 or more employees ⁶	Number.....	55	61	-10

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Jewelers' Findings Industry includes establishments engaged primarily in the manufacture of jewelers' findings and materials. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Jewelers' Findings Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Jewelers' Findings Industry amounted to \$72 million. Of this total, \$61 million were products primary to the industry, \$8 million were products primary to other industries, and \$3 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$64 million of jewelers' findings, were shipped by all producers of these products. Of this total, \$61 million, or 96 percent, were shipped by plants classified in Industry 3912, Jewelers' Findings, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

Table 2.--GENERAL STATISTICS FOR THE JEWELERS' FINDINGS INDUSTRY (S.I.C. CODE 3912) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,090	20,682	4,079	8,033	14,003	33,289	33,511	71,887	697	55	5,369	31,369
Massachusetts.....	1,378	6,125	1,015	2,097	3,868	9,742	9,731	20,971	157	10	1,381	10,157
New York.....	355	1,521	282	561	973	2,842	3,034	11,583	74	5	592	3,661
New Jersey.....	492	2,171	392	803	1,447	3,615	3,577	7,765	43	7	504	2,677
All other States.....	2,865	10,865	2,390	4,572	7,715	17,090	17,169	31,568	423	33	2,891	14,874

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF JEWELERS' FINDINGS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Jewelers' Findings Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3912---	Jewelers' findings.....	63,790	68,092
3912011	Jewelers' findings, such as joints, pins, clasps, spring rings, ring blanks, and other unassembled parts.....	31,046	25,928
3912031	Machine chain.....	10,900	10,707
3912051	Stock shop products, such as flat stock, wire and tubing.....	12,683	31,457
3912000	Jeweler's findings, not specified by kind.....	9,161	...

DEPARTMENT OF COMMERCE
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WASHINGTON 25, D. C.

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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39A-2

LAPIDARY WORK INDUSTRY

(Industry Code 3913--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Lapidary Work Industry shipped products valued at \$41 million, an increase of 1 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 6 percent from 1954 to 1958 to a total of 1.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$15 million in 1958, an increase of 34 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LAPIDARY WORK INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3913)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	1.9	1.8	+6
Payroll.....	Million dollars...	8.2	5.5	+49
Production workers:				
Number.....	Thousands.....	1.7	1.6	+6
Man-hours.....	Millions.....	3.3	2.8	+18
Wages.....	Million dollars...	6.2	4.1	+51
Value added by manufacture, unadjusted ².....	..do.....	16.1	10.6	+52
Value added by manufacture, adjusted ³.....	..do.....	15.0	11.2	+34
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	24.5	29.1	-16
Value of shipments ⁵.....	..do.....	40.6	40.3	+1
Capital expenditures, new.....	..do.....	(6)	(6)	...
Number of establishments with 20 or more employees ⁷	Number.....	19	14	+36

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resale for both years.

⁶Less than \$500 thousand.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Lapidary Work Industry includes establishments engaged primarily in all types of lapidary work, including cutting and polishing of diamonds and other precious stones; drilling pearls; recutting and setting stones; preparing jewels for instruments, tools, and for watches and chronometers; and preparing real and imitation stones for settings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Lapidary Work Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Lapidary Work Industry amounted to \$41 million. Of this total, \$38 million were products primary to the industry, \$1 million were products primary to other industries, and \$2 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$42 million of Lapidary Work were shipped by all producers of these products. Of this total, \$37 million, or 89 percent, were shipped by plants classified in Industry 3913, Lapidary Work, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes and annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE LAPIDARY WORK INDUSTRY (S.I.C. CODE 3913) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	1,932	8,168	1,654	3,329	6,237	16,105	15,036	40,552	257	19	1,759	10,608
New York.....	975	4,844	828	1,780	3,774	10,907	10,437	30,514	184	10	985	7,135
All other States.....	957	3,324	826	1,549	2,463	5,198	4,599	10,038	73	9	774	3,473

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF LAPIDARY WORK SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Lapidary Work Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3913---	Lapidary work, total.....	¹ 41,770	¹ 35,641
3913011	Diamonds for jewelry purposes.....	18,214	18,386
3913015	Diamonds for industrial purposes.....	4,858	5,059
3913031	Other natural precious, semiprecious and synthetic stones (including the drilling of pearls).....	2,424	3,552
3913000	Lapidary work, not specified by kind.....	² 16,274	² 8,644

¹Includes receipts for work done on materials owned by others.

²Includes lapidary work done on materials owned by others for which type of stone was not reported.

DEPARTMENT OF COMMERCE
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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39A-3

SILVERWARE AND PLATED WARE INDUSTRY

(Industry Code 3914—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Silverware and Plated Ware Industry shipped products valued at \$196 million, a decrease of 10 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 20 percent from 1954 to 1958 to a total of 13.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$110 million in 1958, no change from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE SILVERWARE AND PLATED WARE INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3914)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	13.9	17.3	-20
Payroll.....	Million dollars...	62.3	68.1	-8
Production workers:				
Number.....	Thousands.....	11.2	14.4	-22
Man-hours.....	Millions.....	21.8	29.0	-25
Wages.....	Million dollars...	47.6	53.9	-12
Value added by manufacture, unadjusted ².....	.....do.....	110.6	110.0	+0.5
Value added by manufacture, adjusted ³.....	.....do.....	109.9	109.8	+0.1
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	85.0	105.7	-20
Value of shipments ⁵.....	.....do.....	196.0	217.2	-10
Capital expenditures, new.....	.....do.....	2.5	3.8	-34
Number of establishments with 20 or more employees ⁶	Number.....	87	97	-10

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U. S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Silverware and Plated Ware Industry includes establishments engaged primarily in the manufacture of flatware (including knives, forks, and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of stainless steel; of nickel-silver; or of pewter. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the Census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Silverware and Plated Ware Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Silverware and Plated Ware Industry amounted to \$196 million. Of this total, \$175 million were products primary to the industry, \$10 million were products primary to other industries, and \$11 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$179 million of Silverware and Plated Ware were shipped by all producers of these products. Of this total, \$175 million, or 98 percent, were shipped by plants classified in Industry 3914, Silverware and Plated Ware while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SILVERWARE AND PLATED WARE INDUSTRY (S.I.C. CODE 3914) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
						(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
United States, total.....	13,851	62,295	11,225	21,823	47,579	110,638	109,880	196,029	2,475	87	17,345	110,034
New England.....	8,020	36,752	6,524	12,866	28,622	68,165	69,170	123,830	1,173	35	9,454	63,027
Connecticut.....	3,947	19,196	3,396	6,829	16,288	35,588	34,832	67,186	440	14	5,118	35,377
Middle Atlantic.....	4,213	18,731	3,450	6,604	14,386	31,212	30,914	53,518	1,079	36	5,681	33,923
New York.....	3,360	15,075	2,750	5,227	11,649	25,291	24,682	42,509	985	24	4,888	30,038
New Jersey.....	728	3,153	601	1,188	2,415	4,864	5,115	9,178	68	9	678	3,201
North Central, South and West.....	1,618	6,812	1,251	2,353	4,571	11,261	9,796	18,681	223	16	2,208	13,082
Illinois.....	589	2,614	444	817	1,596	4,028	3,958	5,972	66	3	724	4,207
California.....	293	1,362	228	466	966	1,968	2,069	3,146	16	5	197	1,157

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF SILVERWARE AND PLATED WARE SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Silverware and Plated Ware Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (thousand pieces)	Value (\$1,000)	Quantity (thousand pieces)	Value (\$1,000)
3914---	Silverware and plated ware, total.....	xxx	178,685	xxx	188,095
	Flatware: ¹				
3914011	Sterling silver.....	11,737	37,356	15,935	42,170
	Electrosilver plated:				
3914013	Hotel patterns.....	72,947	27,559	14,164	3,282
3914015	Commercial patterns.....	146,132	31,189	159,962	49,697
3914017	Stainless steel.....	xxx	971	xxx	25,719
3914025	Unplated flatware of other metals and flatware plated with metals other than silver.....	xxx	971	xxx	25,719
	Hollow ware, including toiletware, ecclesiastical ware, novelties, trophies, baby goods, and other plated ware:				
3914032	Sterling silver.....	xxx	19,554	xxx	18,658
3914034	Electrosilver plated.....	xxx	31,206	xxx	20,326
3914061	Stainless steel.....	xxx	2,401	xxx	23,854
3914071	Unplated hollow ware of other metals and hollow ware plated with metals other than silver.....	xxx	21,127	xxx	23,854
3914000	Silver and plated ware, not specified by kind.....	xxx	7,322	xxx	4,389

xxx Not applicable.

¹Includes all knives, forks, spoons, etc., made wholly of metal; this also includes stainless steel knives, forks, spoons, and carving sets with metal handles.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39A-4

JEWELRY (PRECIOUS METAL) INDUSTRY

(Industry Code 3911—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Jewelry (Precious Metal) Industry shipped products valued at \$326 million, an increase of 19 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 11 percent from 1954 to 1958 to a total of 21.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$187 million in 1958, an increase of 25 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE JEWELRY (PRECIOUS METAL) INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3911)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	21.0	23.5	-11
Payroll.....	Million dollars...	94.6	90.4	+5
Production workers:				
Number.....	Thousands.....	15.8	18.4	-14
Man-hours.....	Millions.....	30.9	36.4	-15
Wages.....	Million dollars...	60.3	58.4	+3
Value added by manufacture, unadjusted ².....	..do.....	181.5	145.6	+25
Value added by manufacture, adjusted ³.....	..do.....	186.8	149.6	+25
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	161.5	123.3	+31
Value of shipments ⁵.....	..do.....	326.3	273.5	+19
Capital expenditures, new.....	..do.....	3.4	1.8	+89
Number of establishments with 20 or more employees ⁶	Number.....	184	204	-10

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

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The Jewelry (Precious Metal) Industry includes establishments engaged primarily in the manufacture of jewelry and other articles (to be worn on or carried about the person) made of precious metals with or without precious stones, including cigarette cases and lighters; vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Jewelry (Precious Metal) Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Jewelry (Precious Metal) Industry amounted to \$326 million. Of this total, \$279 million were products primary to the industry, \$15 million were products primary to other industries, and \$32 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$287 million of Jewelry (Precious Metal) were shipped by all producers of these products. Of this total, \$279 million, or 97 percent, were shipped by plants classified in Industry 3911, Jewelry (Precious Metal) while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE JEWELRY (PRECIOUS METAL) INDUSTRY (S.I.C. CODE 3911) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	21,032	94,634	15,779	30,928	60,254	181,499	186,838	326,347	3,410	184	23,455	145,567
New England.....	6,793	27,295	5,226	10,280	16,578	40,497	41,476	68,494	334	57	8,191	41,077
Massachusetts.....	3,293	15,328	2,326	4,973	8,273	18,950	20,014	32,827	170	21	3,091	15,160
Rhode Island.....	3,449	11,780	2,857	5,230	8,152	21,216	21,126	35,137	160	35	5,034	25,692
Middle Atlantic.....	10,109	48,717	7,583	14,681	31,543	84,776	84,804	190,444	1,695	93	10,707	73,479
New York.....	7,114	34,123	5,330	10,120	22,282	63,492	62,583	150,769	1,488	64	7,456	52,922
New Jersey.....	2,659	13,137	2,005	4,069	8,243	18,863	19,688	34,312	165	25	2,849	18,259
Pennsylvania.....	336	1,457	248	492	1,018	2,421	2,533	5,363	42	4	402	2,297
North Central.....	2,513	12,422	1,714	3,485	7,638	22,153	25,917	46,037	1,015	21	2,823	21,397
Indiana.....	699	3,219	492	995	2,236	6,602	7,368	10,858	(D)	3	622	5,076
Illinois.....	391	2,233	279	592	1,397	3,700	3,752	8,545	27	6	639	4,716
Michigan.....	277	1,366	158	298	664	2,321	2,618	4,850	35	4	328	2,403
Minnesota.....	614	3,210	417	858	1,840	6,166	8,154	13,390	113	2	542	5,546
South.....	512	1,645	355	683	1,056	3,039	3,130	4,595	93	4	560	1,937
Mountain.....	453	1,333	371	729	986	1,907	1,978	3,717	38	5	395	1,640
Pacific.....	652	3,222	530	1,070	2,453	29,127	29,533	13,060	235	4	776	6,036
California.....	573	2,856	465	951	2,147	6,467	6,880	12,123	203	4	712	5,633

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF JEWELRY (PRECIOUS METAL) SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Jewelry (Precious Metal) Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3911—	Jewelry (precious metal), total.....	287,199	238,526
39111—	Jewelry made of platinum metals and karat gold.....	195,361	155,476
	Rings:.....		
	Rings, complete:		
3911112	Wedding rings.....	28,510	68,858
3911113	Other rings.....	56,788	
3911115	Ring mountings, for sale separately.....	21,752	17,026
3911131	Women's and children's jewelry (excluding watch attachments) ¹	39,839	16,349
3911141	Watch attachments (bracelets for watches).....	6,020	5,934
3911151	Fraternal, college, and school jewelry and emblems, including military insignia (excluding rings).....	9,082	8,924
3911198	Other jewelry worn or carried about the person ²	12,475	6,148
3911100	Jewelry made of platinum metal and karat gold, not specified by kind.....	20,895	32,237
39112—	Jewelry made of precious metals except platinum and karat gold.....	74,265	72,635
	Jewelry—gold filled, rolled gold plate, palladium filled, rolled palladium plate, and sterling silver:		
3911211	Rings and ring mountings.....	5,604	7,785
3911221	Men's jewelry (excluding watch attachments) ³	7,037	11,160
3911231	Women's and children's jewelry (excluding watch attachments) ¹	21,723	14,975
3911241	Watch attachments (bracelets for watches).....	24,844	25,360
3911298	Other jewelry worn or carried about the person ⁴	9,855	9,883
3911200	Jewelry made of gold filled etc., not specified by kind.....	5,202	3,472
3911000	Jewelry (precious metal) not specified by kind of material or type of jewelry.....	17,573	10,415

¹Includes necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc.

²Includes men's jewelry (collar and cuff buttons, studs, watch chains, etc.), religious jewelry (rosaries, chaplets, crosses, etc.), cigar and cigarette cases and lighters, compacts, vanity cases, etc.

³Includes collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, tie and collar holders, etc.

⁴Includes fraternal, college, and school jewelry and emblems (excluding rings), military insignia, religious jewelry (rosaries, chaplets, crosses, etc.), cigar and cigarette cases and lighters, compacts, vanity cases, etc.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P) -39B-1

PIANOS INDUSTRY

(Industry Code 3931--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Pianos Industry shipped products valued at \$80 million, an increase of 24 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry totaled 5.8 thousand employees in 1958, no change from 1954. Value added by manufacture in the industry amounted to \$37 million in 1958, an increase of 15 percent from 1954 when the previous census was taken. Value added is derived by subtracting

the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE PIANOS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3931)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.8	5.8	-
Payroll.....	Million dollars...	26.6	24.1	+10
Production workers:				
Number.....	Thousands.....	4.7	4.9	-4
Man-hours.....	Millions.....	8.9	9.5	-6
Wages.....	Million dollars...	20.1	18.6	+8
Value added by manufacture, unadjusted ².....	..do.....	37.8	32.4	+17
Value added by manufacture, adjusted ³.....	..do.....	37.3	32.4	+15
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	42.6	32.3	+32
Value of shipments ⁵.....	..do.....	80.2	64.8	+24
Capital expenditures, new.....	..do.....	0.9	0.5	+80
Number of establishments with 20 or more employees ⁶	Number.....	22	24	-8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Pianos Industry includes establishments engaged primarily in the manufacture of complete pianos, with or without player attachments. Included in this industry are all types of pianos: vertical, grand, spinet, player and coin-operated. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Pianos Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Pianos Industry amounted to \$80 million. Of this total, \$61 million were products primary to the industry, \$18 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 78 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$64 million of Pianos were shipped by all producers of these products. Of this total, \$61 million, or 96 percent, were shipped by plants classified in Industry 3931, Pianos, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (table 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE PIANOS INDUSTRY (S.I.C. CODE 3931) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,817	26,580	4,727	8,938	20,112	37,846	37,271	80,155	871	22	5,759	32,436
Middle Atlantic.....	1,590	7,480	1,312	2,448	5,757	10,732	10,535	21,451	261	9	2,020	10,759
All other divisions....	4,227	19,100	3,415	6,490	14,355	27,114	26,736	58,704	610	13	3,739	21,676
Illinois.....	1,291	6,046	993	1,894	4,487	10,258	9,772	22,714	329	5	1,328	9,803

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF PIANOS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Pianos Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Number	Value (\$1,000)		Number	Value (\$1,000)
3931---	Pianos.....	xxx	xxx	64,130	xxx	xxx	56,695
3931011	Verticals, uprights, or consoles, 37 inches or less in height....	84,236	83,080	33,065	91,936	92,644	30,279
3931015	Verticals, uprights, or consoles, over 37 inches or less in height.....	62,740	63,893	26,269	56,001	56,102	21,986
3931051	Grand pianos.....	2,393	3,210	4,796	3,641	3,583	4,430

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P) -39B-2

MUSICAL INSTRUMENTS, N.E.C., INDUSTRY

(Industry Code 3939--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Musical Instruments, Not Elsewhere Classified, Industry shipped products valued at \$54 million, an increase of 23 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 6 percent from 1954 to 1958 to a total of 4.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$33 million in 1958, an increase of 18 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MUSICAL INSTRUMENTS, N.E.C., INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3939)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	4.6	4.9	-6
Payroll.....	Million dollars...	22.0	18.9	+16
Production workers:				
Number.....	Thousands.....	3.7	4.0	-8
Man-hours.....	Millions.....	7.0	8.0	-12
Wages.....	Million dollars...	15.8	14.5	+9
Value added by manufacture, unadjusted ².....	.....do.....	32.2	26.7	+21
Value added by manufacture, adjusted ³.....	.....do.....	33.4	28.2	+18
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	20.1	16.4	+23
Value of shipments ⁵.....	.....do.....	53.8	43.8	+23
Capital expenditures, new.....	.....do.....	1.4	0.7	+100
Number of establishments with 20 or more employees ⁶	Number.....	52	52	-

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Musical Instruments, N.E.C., Industry includes establishments engaged primarily in the manufacture of musical instruments, parts, and materials, n.e.c. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Musical Instruments, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Musical Instruments, N.E.C., Industry amounted to \$54 million. Of this total, \$46 million were products primary to the industry, \$2 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should

be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that 48 million of musical instruments, n.e.c., were shipped by all producers of these products. Of this total, 46 million, or 97 percent, were shipped by plants classified in Industry 3939, Musical Instruments, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE MUSICAL INSTRUMENTS, N.E.C., INDUSTRY (S.I.C. CODE 3939) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	4,637	21,994	3,684	7,007	15,776	32,150	33,394	53,766	1,445	52	4,853	26,731
Northeast.....	966	4,024	758	1,443	2,772	7,216	7,514	12,239	122	16	1,032	4,954
New York.....	371	1,602	286	350	972	3,862	3,607	6,302	64	4	360	1,734
North Central.....	3,168	15,779	2,492	4,818	11,333	21,492	22,518	36,109	390	30	...	...
Ohio.....	371	1,860	301	613	1,429	2,374	2,305	3,347	18	4	597	2,719
Indiana.....	1,291	7,565	933	1,823	5,081	9,204	10,072	15,056	206	10	1,463	9,155
South and West.....	503	2,191	434	746	1,671	3,442	3,362	5,418	933	...	353	2,302

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF MUSICAL INSTRUMENTS, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Musical Instruments, N.E.C., Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production	Total shipments including interplant transfers		Total production	Total shipments including interplant transfers	
			Number	Value (\$1,000)		Number	Value (\$1,000)
3939---	Musical instruments, total.....	xxx	xxx	47,905	xxx	xxx	36,361
3939011	Wind instruments, except organs.....	260,432	261,485	19,812	285,043	276,722	16,538
3939031	Accessories and parts, sold separately, sold as reed mouth pieces, music stands, drummers' traps, etc., except instrument cases and benches.....	xxx	xxx	6,282	xxx	xxx	6,954
3939098	Other musical instruments (violins, guitars, harps, drums, etc.,).....	xxx	xxx	14,843	xxx	xxx	12,869
3939000	Musical instruments, not specified by kind.....	xxx	xxx	6,968	xxx	xxx	...

xxx Not applicable.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39B-3

PIANO AND ORGAN PARTS INDUSTRY

(Industry Code 3933—SIC systems in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Piano and Organ Parts Industry shipped products valued at \$47 million, an increase of 31 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 10 percent from 1954 to 1958 to a total of 3.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$31 million in 1958, an increase of 23 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products for some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PIANO AND ORGAN PARTS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3933)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.3	3.0	+10
Payroll.....	Million dollars...	16.1	11.6	+39
Production workers:				
Number.....	Thousands.....	2.8	2.7	+4
Man-hours.....	Millions.....	5.8	5.7	+2
Wages.....	Million dollars...	12.2	9.9	+23
Value added by manufacture, unadjusted ²	do.....	31.1	25.2	+23
Value added by manufacture, adjusted ³	do.....	31.1	25.2	+23
Cost of materials, fuel, electricity, and contract work ⁴	do.....	15.7	10.5	+50
Value of shipments ⁵	do.....	46.9	35.8	+31
Capital expenditures, new.....	do.....	1.0	0.5	+100
Number of establishments with 20 or more employees ⁶	Number.....	23	20	+15

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Piano and Organ Parts Industry includes establishments engaged primarily in the manufacture of piano strings, plates, keys, actions, keyboard, back frames, pedal attachments, hammers, sounding boards, organ reeds, pipes, stops, knobs, and music rolls. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Piano and Organ Parts Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Piano and Organ Parts Industry amounted to \$47 million. Of this total, \$44 million were products primary to the industry, \$2 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$51 million of piano and organ parts were shipped by all producers of these products. Of this total, \$44 million, or 86 percent, were shipped by plants classified in Industry 3933, Piano and Organ Parts, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PIANO AND ORGAN PARTS INDUSTRY BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	3,335	16,083	2,802	5,785	12,205	31,132	31,133	46,863	1,010	23	3,032	25,239
Northeast.....	997	4,886	875	1,739	3,916	7,128	7,138	10,602	677	8	1,106	6,675
New York.....	285	1,445	233	475	944	2,052	2,024	3,045	(D)	4	316	2,282
All other regions.....	2,338	11,197	1,927	4,046	8,289	24,004	23,995	36,261	335	15	1,925	18,563
Illinois.....	1,410	7,469	1,135	2,505	5,350	18,054	18,082	25,788	194	6	1,180	14,856

¹ D Withheld to avoid disclosing figures of individual companies.

² Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

³ Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

⁴ Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁵ For explanation see text under "Value of shipments."

⁶ Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF PIANO AND ORGAN PARTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Piano and Organ Parts Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3933—	Piano and organ parts, total.....	51,145	38,123
3933011	Piano parts and materials (actions, attachments, strings, tuning pins, etc.) except benches.....	23,244	19,437
3933051	Organ parts and materials, except benches.....	27,901	18,686

U. S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
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Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39B-4

CHILDREN'S VEHICLES INDUSTRY

(Industry Code 3943—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Children's Vehicles Industry shipped products valued at \$73 million, a decrease of 6 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 21 percent from 1954 to 1958 to a total of 5.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$33 million in 1958, a decrease of 6 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE CHILDREN'S VEHICLES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3943)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.0	6.3	-21
Payroll.....	Million dollars...	20.8	24.3	-14
Production workers:				
Number.....	Thousands.....	4.1	5.5	-26
Man-hours.....	Millions.....	8.1	10.6	-24
Wages.....	Million dollars...	15.6	19.4	-20
Value added by manufacture, unadjusted ².....	...do.....	33.4	36.5	-9
Value added by manufacture, adjusted ³.....	...do.....	33.3	35.5	-6
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	39.4	40.6	-3
Value of shipments ⁵.....	...do.....	72.9	77.2	-6
Capital expenditures, new.....	...do.....	.9	1.3	-31
Number of establishments with 20 or more employees ⁶	Number.....	34	37	-8

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Children's Vehicles Industry includes establishments engaged primarily in the manufacture of baby carriages, strollers, and go-carts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Children's Vehicles Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Children's Vehicles Industry amounted to \$73 million. Of this total, \$59 million were products primary to the industry, \$11 million were products primary to other industries, and \$3 million were receipts for miscellaneous activities. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 76 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$72 million of Children's Vehicles were shipped by all producers of these products. Of this total, \$59 million, or 81 percent, were shipped by plants classified in Industry 3943, Children's Vehicles, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS OF CHILDREN'S VEHICLES INDUSTRY (S.I.C. CODE 3943) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	4,960	20,753	4,116	8,111	15,646	33,443	33,285	72,914	861	34	6,278	36,499
New England.....	853	3,293	670	1,266	2,334	4,352	4,272	9,935	91	8	1,146	5,946
Middle Atlantic.....	993	3,954	819	1,594	2,843	5,573	5,558	11,338	77	10	879	4,912
East North Central.....	2,067	9,457	1,834	3,579	7,714	16,404	16,210	35,759	292	9	3,190	19,533
South and West.....	575	2,387	418	851	1,449	4,557	4,692	9,684	370	5	522	3,031

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF CHILDREN'S VEHICLES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Children's Vehicles Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (thousand units)	Value (\$1,000)	Quantity (thousand units)	Value (\$1,000)
3943---	Children's vehicles, total.....	xxx	72,413	xxx	64,547
3943011	Baby carriages (including combination carriage stroller).....	280	7,657	380	8,546
3943015	Strollers.....	877	11,589	815	6,510
3943021	Baby walkers.....	xxx	(1)	653	4,713
3943031	Velocipedes and tricycles (excluding chain-driven tricycles).....	2,423	18,171	2,361	16,660
3943041	Chain-driven tricycles.....	...	...
3943061	Children's wagons (coaster, express, and other).....	xxx	(1)	1,514	6,816
3943071	Sleds.....	921	3,327	522	1,441
3943081	Parts for children's vehicles, sold separately.....	xxx	1,908	xxx	3,239
3943098	Other children's vehicles (including scooters, children's automobiles, sidewalk cycles, three-wheel play cars etc.).....	xxx	128,611	xxx	15,266
3943000	Children's vehicles, not specified by kind.....	xxx	1,150	xxx	1,356

xxx Not applicable.

¹For 1958, included in product code 3943098, "Other children's vehicles."

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39B-5

DOLLS INDUSTRY

(Industry Code 3942--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Dolls Industry shipped products valued at \$162 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 8 percent from 1954 to 1958 to a total of 13.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$77 million in 1958, an increase of 15 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE DOLLS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3942)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	13.9	15.1	-8
Payroll.....	Million dollars...	44.0	38.9	+13
Production workers:				
Number.....	Thousands.....	12.2	13.8	-12
Man-hours.....	Millions.....	22.8	24.6	-7
Wages.....	Million dollars...	33.9	30.7	+10
Value added by manufacture, unadjusted ².....	..do.....	76.0	66.3	+15
Value added by manufacture, adjusted ³.....	..do.....	76.7	66.4	+15
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	85.5	78.5	+9
Value of shipments ⁵.....	..do.....	162.0	145.2	+12
Capital expenditures, new.....	..do.....	5.5	2.2	+150
Number of establishments with 20 or more employees ⁶	Number.....	162	165	+2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resale for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Dolls Industry includes establishments engaged primarily in the manufacture of dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. Establishments primarily engaged in manufacturing doll wigs are classified in Industry 3994, Hairwork. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Dolls Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Dolls Industry amounted to \$162 million. Of this total, \$153 million were products primary to the industry, \$3 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98

percent of the total manufactured product shipments, primary and secondary). The 1954 ratio was 92 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$162 million of dolls, doll clothes and doll parts were shipped by all producers of these products. Of this total, \$153 million, or 94 percent, were shipped by plants classified in Industry 3942, Dolls, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

3

Table 2.--GENERAL STATISTICS FOR THE DOLLS INDUSTRY (S.I.C. CODE 3942) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	13,870	44,009	12,204	22,797	33,897	75,983	76,732	161,958	5,469	162	15,119	66,289
New England.....	1,019	2,680	873	1,600	2,022	5,164	5,149	8,880	118	10	836	3,195
Middle Atlantic.....	11,718	38,151	10,364	19,469	29,467	65,110	66,050	140,011	5,228	140	12,934	57,816
New York.....	9,624	30,447	8,521	16,047	23,613	53,297	54,056	115,775	4,902	126	11,166	49,602
New Jersey.....	1,571	6,008	1,379	2,566	4,427	9,026	9,136	18,521	292	7	1,278	6,536
Pennsylvania.....	523	1,696	464	856	1,427	2,787	2,858	5,715	34	4	488	1,676
North Central.....	299	807	241	450	617	1,354	1,358	3,037	8	4	262	1,320
South and West.....	834	2,371	726	1,278	1,791	4,355	4,175	10,030	115	8	1,086	3,956
Georgia.....	380	1,204	350	668	969	2,347	2,243	4,904	47	4	552	1,833

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF DOLLS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Dolls Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3942----	Dolls.....	xxx	161,830	xxx	131,932
3942011	Dolls complete (except rubber dolls).....	xxx	49,560	xxx	41,533
	Quantity reported.....	27,864	41,295	28,627	37,081
	Quantity not reported.....	xxx	8,265	xxx	4,452
3942013	Rubber dolls.....	4,302	12,579	18,241	27,977
3942015	Doll clothes and doll parts.....	xxx	33,094	xxx	25,149
3942051	Stuffed toy animals.....	xxx	39,556	xxx	31,072
	Quantity reported.....	12,912	33,650	17,750	26,825
	Quantity not reported.....	xxx	5,906	xxx	4,247
3942000	Dolls not specified by kind.....	xxx	27,041	xxx	6,201

xxx Not applicable.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC(P)-39B-6 (Rev.)

SPORTING AND ATHLETIC GOODS INDUSTRY

(Industry Code 3949--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Sporting and Athletic Goods Industry shipped products valued at \$578 million, an increase of 87 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 28 percent from 1954 to 1958 to a total of 37.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$313.4 million in 1958, an increase of 96 percent from 1954 when the previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure

available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

The Sporting and Athletic Goods Industry includes establishments engaged primarily in the manufacture of sporting and athletic goods, n.e.c., such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Also included in this industry are establishments primarily engaged in manufacturing athletic and sporting gloves, shin guards, helmets, shoulder pads, chest protectors, and similar items.

NOTE ON REVISION: This revision is issued to insert the Unit of measure column in table 3. The figures, as originally reported, remain unchanged.

Table 1.--GENERAL STATISTICS FOR THE SPORTING AND ATHLETIC GOODS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3949)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	37.1	28.9	+28
Payroll.....	Million dollars...	148.3	89.7	+65
Production workers:				
Number.....	Thousands.....	29.6	24.4	+21
Man-hours.....	Millions.....	57.8	46.1	+25
Wages.....	Million dollars...	104.0	66.1	+57
Value added by manufacture, unadjusted ².....	...do.....	299.5	158.2	+89
Value added by manufacture, adjusted ³.....	...do.....	313.4	159.9	+96
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	270.4	147.0	+84
Value of shipments ⁵.....	...do.....	578.1	308.8	+87
Capital expenditures, new.....	...do.....	10.3	5.7	+81
Number of establishments with 20 or more employees ⁶	Number.....	300	254	+18

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

Establishments primarily engaged in manufacturing athletic uniforms are classified in Major Group 23, Apparel and Related products; athletic shoes in Industry 3141, Footwear; rubber footwear in Industry 3021, Rubber Footwear; socks in Industry 2252, Seamless-Hosiery Mills; firearms and small arms ammunition in Major Group 19, Ordnance and Accessories; and rubber balls (except bowling balls, golfballs, tennis balls, footballs, and basketballs) in Industry 3099, Rubber Industries, N.E.C. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Sporting and Athletic Goods Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Sporting and Athletic Goods Industry amounted to \$578 million. Of this total, \$474 million were products primary to the industry, \$67 million were products primary to other industries, and \$37 million were receipts for miscellaneous activities. The industry shipments of primary products represented 88 percent

of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry, shipped by all producers. The latter figure, appearing in table 3, indicates that \$521 million of Sporting and athletic goods were shipped by all producers of these products. Of this total, \$474 million, or 91 percent, were shipped by plants classified in Industry 3949, Sporting and Athletic Goods, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SPORTING AND ATHLETIC GOODS INDUSTRY (S.I.C. CODE 3949), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	37,602	148,309	29,623	57,840	104,039	299,528	313,355	578,060	10,257	300	28,919	158,153
New England.....	4,763	17,444	3,874	7,233	12,816	27,189	27,404	56,057	727	32	4,340	20,920
Massachusetts.....	3,037	11,535	2,444	4,469	8,361	18,621	18,646	39,162	519	14	2,893	14,618
Connecticut.....	880	3,320	704	1,348	2,430	4,507	4,495	9,159	113	8	950	4,488
Middle Atlantic.....	8,725	40,203	6,533	13,349	27,323	83,663	86,995	144,282	2,586	66	4,624	24,531
East North Central.....	11,590	48,983	9,163	17,689	33,560	109,636	116,072	221,700	3,429	94	11,188	67,818
Ohio.....	4,022	17,026	3,169	6,052	11,977	29,281	28,560	74,137	1,226	23	4,083	23,202
Indiana.....	388	1,571	307	565	1,012	2,502	2,766	5,455	77	5	369	2,119
Illinois.....	2,463	9,999	1,981	3,832	7,273	32,224	36,685	55,536	897	28	2,344	14,808
Michigan.....	3,685	17,278	2,844	5,835	11,220	40,712	42,933	76,675	1,061	22	3,458	23,506
Wisconsin.....	1,032	3,109	862	1,405	2,078	4,917	5,128	9,897	168	16	933	4,182
West North Central.....	3,075	9,898	2,677	5,171	7,868	19,457	18,698	38,649	546	30	2,594	11,454
Minnesota.....	582	2,062	510	1,003	1,600	4,956	4,764	9,020	128	8	528	3,004
Iowa.....	636	2,042	528	1,039	1,560	3,870	3,781	7,119	89	8	540	1,926
Missouri.....	1,727	5,321	1,533	2,911	4,357	9,831	9,320	21,080	299	13	1,425	6,154
South Atlantic.....	2,637	9,452	2,069	4,001	6,277	18,980	21,595	34,422	1,265	20	869	3,537
South Carolina.....	368	1,127	326	651	814	1,623	2,158	3,568	515	4	177	888
Florida.....	430	1,214	365	670	924	2,152	2,309	4,283	210	7	292	999
East South Central.....	1,538	5,541	1,338	2,610	4,069	10,264	10,576	22,045	297	12	1,124	5,908
Tennessee.....	798	2,161	742	1,366	1,868	3,844	4,041	8,676	128	5	712	2,748
Alabama.....	271	966	207	438	579	2,602	2,530	5,676	86	4	133	779
West South Central.....	1,514	4,690	1,324	2,571	3,582	7,751	7,900	16,930	219	9	1,281	7,314
Texas.....	360	1,116	301	588	827	2,600	2,716	4,959	99	5	423	1,867
Mountain.....	888	2,469	820	1,514	2,162	4,572	4,504	7,701	86	9	962	4,846
Colorado.....	630	1,778	584	1,074	1,569	3,349	3,293	5,808	59	8	764	3,958
Pacific.....	2,332	9,629	1,825	3,702	6,382	18,016	19,611	36,274	1,102	28	1,843	11,822
California.....	1,931	8,259	1,495	3,069	5,277	15,611	16,590	31,093	960	22	1,553	10,204

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF SPORTING AND ATHLETIC GOODS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Sporting and Athletic Goods Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3949---	Sporting and athletic goods, total.....		xxx	521,087	xxx	302,674
	Fishing tackle.....		xxx	75,727	xxx	67,449
3949014	Fishing rods, all types.....	1,000.....	5,263	16,522	5,831	17,061
3949015	Fishing reels.....	do.....	5,428	22,816	4,774	18,901
3949016	Flies, snelled hooks, leaders, and artificial bait.....		xxx	15,471	xxx	18,509
3949019	Other fishing tackle (includes fishing poles, fish hooks, floats, furnished lines, sinkers, etc.).....		xxx	20,918	xxx	12,978
3949022	Billiard and pool tables and playing supplies (includes balls, cues, etc.).....		xxx	5,207	xxx	3,807
3949025	Bowling alleys.....	Number.....	xxx	(¹)	3,358	4,610
	Bowling alley playing supplies:					
3949028	Bowling balls.....	1,000.....	897	10,540	xxx	27,069
3949029	Other bowling alley playing supplies (includes pins, bowling pin setters, etc.) ²		xxx	135,735		
3949031	Golf balls.....	1,000 dozen.....	3,386	18,831	3,066	15,444
	Golf clubs:					
3949041	Irons.....	1,000.....	4,648	20,982	3,290	13,702
3949045	Woods.....	do.....	1,785	11,507	1,542	9,672
3949053	Tennis balls.....	1,000 dozen.....	xxx	(³)	545	2,348
3949061	Baseballs.....	do.....	735	8,510	574	6,185
3949063	Softballs and indoor type baseballs.....	do.....	353	4,747	309	3,361
3949065	Baseball bats (including softball bats).....	1,000.....	6,082	7,092	4,560	4,399
3949066	Baseball mitts and gloves.....	1,000 dozen.....	308	13,630	279	11,685
3949067	Footballs.....	do.....	226	5,049	xxx	5,742
3949071	Basketballs.....	do.....	200	7,763	169	6,290
3949073	Inflatable athletic balls other than footballs and basketballs (includes soccer balls, volley balls, etc.).....	do.....	179	6,176	241	5,063
3949084	Sidewalk and rink roller skates.....	1,000 pairs.....	4,540	9,530	5,441	9,727
3949085	Playground equipment.....		xxx	20,068	xxx	21,700
3949098	Other sporting and athletic goods, including golf club shafts, sold separately, ice skates, winter sports equipment, tennis rackets, boxing goods, caddy bags, racket strings, table tennis goods, squash goods, gymnasium equipment, hockey goods, archery equipment, etc., but excluding athletic clothing and shoes.....		xxx	3114,775	xxx	68,376
3949000	Sporting and athletic goods, not specified by kind.....		xxx	45,218	xxx	16,045

xxx Not applicable.

¹For 1958, included with product code 3949029, "Other bowling alley playing supplies," to avoid disclosing figures for individual companies.

²For 1958, some products, e.g., pin setters, are not sold but are leased. The values reported for such products represent the value of the product based on the valuation placed on them for tax, insurance, and similar purposes.

³For 1958, included with product code 3949098, "Other sporting and athletic goods," to avoid disclosing figures for individual companies.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P) -39B-7

ORGANS INDUSTRY

(Industry Code 3932—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Organs Industry shipped products valued at \$56 million, an increase of 93 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 28 percent from 1954 to 1958 to a total of 2.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$19 million in 1958, an increase of 127 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ORGANS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3932)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.3	1.8	+28
Payroll.....	Million dollars...	10.0	6.6	+51
Production workers:				
Number.....	Thousands.....	1.9	1.5	+27
Man-hours.....	Millions.....	3.9	3.2	+22
Wages.....	Million dollars...	7.7	5.3	+45
Value added by manufacture, unadjusted ².....	..do.....	19.5	8.7	+124
Value added by manufacture, adjusted ³.....	..do.....	19.3	8.5	+127
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	35.9	20.3	+77
Value of shipments ⁵.....	..do.....	56.0	29.0	+93
Capital expenditures, new.....	..do.....	1.2	(NA)	(NA)
Number of establishments with 20 or more employees ⁶	Number.....	19	15	+27

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

NA Not available.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Organs Industry includes establishments engaged primarily in the manufacture of complete pipe organs, reed organs, electronic organs, and organs with electrical amplification. Establishments primarily engaged in manufacturing organ parts are classified in Industry 3933, Piano and Organ Parts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Organs Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Organs Industry amounted to \$56 million. Of this total, \$51 million were products primary to the industry, \$1 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 98 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$79 million of organs were shipped by all producers of these products. Of this total, \$51 million, or 64 percent, were shipped by plants classified in Industry 3932, Organs.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ORGANS INDUSTRY (S.I.C. CODE 3932) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	2,314	9,993	1,877	3,941	7,700	19,531	19,254	55,966	1,235	19	1,762	8,664
Northeast.....	828	3,344	652	1,413	2,437	6,672	6,852	12,420	118	8	561	1,686
Pennsylvania.....	340	1,219	284	565	1,001	1,887	1,944	3,511	31	2	153	797
All other regions.....	1,486	6,649	1,225	2,528	5,263	12,859	12,402	43,546	1,117	11	1,200	6,977

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF ORGANS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Organ Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	1958			1954		
		Total production (number)	Total shipments including interplant transfers		Total production (number)	Total shipments including interplant transfers	
			Number	Value (\$1,000)		Number	Value (\$1,000)
3932---	Organs, total.....	xxx	xxx	79,375	xxx	xxx	37,454
3932011	Pipe and reed.....	xxx	xxx	14,125	xxx	xxx	6,622
3932051	Electronic.....	85,784	88,559	65,250	34,092	34,013	30,832

xxx Not applicable.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

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A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39B-8

GAMES AND TOYS, N.E.C. INDUSTRY

(Industry Code 3941--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Games and Toys, N.E.C., Industry shipped products valued at \$530 million, an increase of 35 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 10 percent from 1954 to 1958 to a total of 42.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$282 million in 1958, an increase of 36 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE GAMES AND TOYS, N.E.C., INDUSTRY, IN THE UNITED STATES: 1958 and 1954

(Standard Industrial Classification Code 3941)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	42.0	38.2	+10
Payroll.....	Million dollars...	146.6	113.2	+30
Production workers:				
Number.....	Thousands.....	35.2	32.8	+7
Man-hours.....	Millions.....	67.0	60.8	+10
Wages.....	Million dollars...	104.3	85.2	+25
Value added by manufacture, unadjusted ².....	..do.....	276.4	208.5	+33
Value added by manufacture, adjusted ³.....	..do.....	281.8	206.7	+36
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	250.8	180.9	+39
Value of shipments ⁵.....	..do.....	530.0	391.3	+35
Capital expenditures, new.....	..do.....	15.6	8.4	+86
Number of establishments with 20 or more employees ⁶	Number.....	358	308	+16

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Games and Toys, N.E.C., Industry includes establishments engaged primarily in the manufacture of indoor games and game sets for adults and children and mechanical and non-mechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys such as toy furniture, doll carriages and carts, toy books, construction sets, mechanical trains, toy gums and air rifles, and other mechanical games and toys. These games and toys may be made of wood, metal, plastic, or paper.

Establishments primarily engaged in manufacturing dolls are classified in Industry 3942, Dolls; children's outdoor wheel goods, and vehicles in Industry 3943, Children's Vehicles; sporting and athletic goods for children and adults in Industry 3949, Sporting and Athletic Goods; playing cards in Industry 2699, Paper and Board Products, N.E.C.; rubber toys, including balloons and balls, in Industry 3099, Rubber Industries, N.E.C., and children's books except toy books, in Major Group 27. This report does not include figures for administrative offices, which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Games and Toys, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified

in the Games and Toys, N.E.C., Industry amounted to \$530 million. Of this total, \$483 million were products primary to the industry, \$24 million were products primary to other industries, and \$23 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$522 million of games and toys, n.e.c., were shipped by all producers of these products. Of this total, \$483 million, or 93 percent, were shipped by plants classified in Industry 3941, Games and Toys, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and totals for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE GAMES AND TOYS, N.E.C., INDUSTRY (S.I.C. CODE 3941), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	42,024	146,587	35,229	66,984	104,339	276,380	281,792	529,980	15,615	358	38,242	208,484
New England.....	5,526	19,473	4,399	8,413	12,955	37,797	37,935	66,470	1,519	40	6,808	35,106
New Hampshire.....	525	1,549	488	976	1,400	2,779	2,819	5,387	(D)	4	629	1,679
Massachusetts.....	2,410	8,397	1,928	3,690	5,566	16,844	17,394	29,838	514	23	2,856	15,147
Connecticut.....	1,417	5,551	1,034	1,896	3,334	10,507	9,976	16,248	512	6	2,463	13,921
Middle Atlantic.....	19,509	65,568	16,602	31,520	48,189	122,855	124,786	236,563	6,409	160	18,273	99,370
New York.....	10,536	33,752	8,857	17,226	23,906	66,405	69,022	135,843	3,030	103	8,347	44,685
New Jersey.....	4,546	16,219	3,877	7,122	11,577	30,345	30,456	50,947	2,346	34	4,833	26,642
Pennsylvania.....	4,427	15,597	3,868	7,172	12,706	26,105	25,308	49,773	1,033	23	5,092	28,042
East North Central.....	8,912	32,799	7,295	13,769	22,795	59,220	60,143	119,595	2,865	86	7,363	45,650
Ohio.....	2,100	7,314	1,611	3,052	4,566	14,383	13,770	29,308	518	19	2,124	12,958
Illinois.....	3,753	14,014	3,154	5,948	10,035	24,255	25,067	50,411	994	40	2,730	17,433
Michigan.....	1,193	4,531	916	1,714	3,032	8,147	8,686	17,165	750	12	1,442	9,283
West North Central.....	1,507	4,973	1,269	2,301	3,447	9,414	9,754	18,139	512	22	1,132	5,107
Minnesota.....	800	2,734	690	1,298	2,000	4,744	4,860	9,398	258	11	537	2,650
Missouri.....	586	1,807	473	768	1,098	3,690	3,898	7,112	202	9	533	2,159
South.....	3,647	12,666	3,202	6,081	9,240	22,124	23,453	44,272	3,201	27	2,374	11,352
West.....	2,923	11,108	2,462	4,900	7,713	24,970	25,721	44,941	1,109	23	2,289	11,897
California.....	2,733	10,590	2,301	4,592	7,294	23,992	24,752	43,163	944	21	2,041	10,859

D Withheld to avoid disclosing figures for individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF GAMES AND TOYS, N.E.C., SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Games and Toys, N.E.C., Industry but also by establishments making items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3941---	Games and toys, except dolls and children's vehicles, total.....	xxx	521,717	xxx	400,378
3941011	Doll carriages and doll carts.....	2,285	8,024	1,865	8,232
3941021	Toy trains and equipment (mechanical and electric).....	xxx	25,926	xxx	33,500
3941031	Mechanical toys, except trains (propelled by springs or electricity, gear driven,) including miniature engines for aircraft or toy boats.....	xxx	33,320	xxx	14,729
3941041	Structural toy sets.....	xxx	6,197	xxx	8,450
3941051	Model construction sets (airplanes, ships, trains, etc.) ¹	xxx	19,337	xxx	16,600
3941061	Metal toys other than those listed above.....	xxx	72,448	xxx	83,232
3941071	Wooden toys, other than those listed above.....	xxx	36,456	xxx	31,199
3941081	Plastic toys, other than those listed above.....	xxx	114,538	xxx	83,409
3941091	Parts for toys and games.....	xxx	5,252	xxx	9,822
3941098	Other games, complete (include chess, checkers, etc.).....	xxx	124,408	xxx	91,814
3941000	Games and toys, except dolls and children's vehicles not specified by kind.....	xxx	73,811	xxx	19,391

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

xxx Not applicable.

¹This classification includes model construction set, consisting of prefabricated materials and parts, sold as a unit for assembly by the final user. It excludes parts and accessories sold separately, such as wood, motors, rubber, glue, paint, etc., which may be used for model construction.

1958 CENSUS OF MANUFACTURES

PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

FINAL INDUSTRY REPORTS

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

FINAL AREA REPORTS

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

FINAL SUBJECT REPORTS

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I - SUMMARY STATISTICS

VOLUME II - INDUSTRY STATISTICS

VOLUME III - AREA STATISTICS

Bureau of the Census
Washington 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-1

HAND STAMPS AND STENCILS INDUSTRY

(Industry Code 3953—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Hand Stamps and Stencils Industry shipped products valued at \$60 million, an increase of 10 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 5.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$40 million in 1958, an increase of 14 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE HAND STAMPS AND STENCILS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3953)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.4	5.7	-5
Payroll.....	Million dollars...	24.7	21.9	+13
Production workers:				
Number.....	Thousands.....	3.9	4.1	-5
Man-hours.....	Millions.....	7.4	8.1	-9
Wages.....	Million dollars...	15.6	13.8	+13
Value added by manufacture, unadjusted ².....	..do.....	38.0	32.5	+17
Value added by manufacture, adjusted ³.....	..do.....	39.8	34.8	+14
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	19.9	19.3	+3
Value of shipments ⁵.....	..do.....	59.6	54.3	+10
Capital expenditures, new.....	..do.....	1.4	1.1	+27
Number of establishments with 20 or more employees ⁶	Number.....	70	68	+3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Hand Stamps and Stencils Industry includes establishments engaged primarily in the manufacture of rubber and metal, hand stamps, dies, and seals; steel letters and figures; stencils for use in painting or marking; and branding irons. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Hand Stamps and Stencils Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Hand Stamps and Stencils Industry amounted to \$60 million. Of this total, \$50 million were products primary to the industry, \$2 million were products primary to other industries, and \$8 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$58 million of hand stamps and stencils were shipped by all producers of these products. Of this total, \$50 million, or 86 percent, were shipped by plants classified in Industry 3953, Hand Stamps and Stencils, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE HAND STAMPS AND STENCILS INDUSTRY (S.I.C. CODE 3953) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,428	24,708	3,864	7,419	15,564	38,012	39,764	59,644	1,358	70	5,654	32,466
New England.....	443	2,054	322	666	1,371	3,069	3,215	4,342	44	6	516	2,900
Massachusetts.....	288	1,315	215	439	878	2,004	2,124	2,915	21	3	182	902
Middle Atlantic.....	1,934	8,966	1,420	2,728	5,688	12,627	13,316	19,474	460	20	2,147	12,055
New York.....	848	3,554	636	1,166	2,307	5,412	5,898	8,916	194	9	1,033	5,907
New Jersey.....	299	1,489	237	474	1,041	2,492	2,525	3,633	67	4	223	1,189
Pennsylvania.....	787	3,923	547	1,088	2,340	4,723	4,893	6,925	199	7	890	4,958
East North Central.....	1,422	6,976	981	1,972	4,400	10,362	10,786	16,732	428	23	1,538	9,813
Illinois.....	753	3,702	535	1,097	2,397	5,496	5,593	9,345	240	13	871	5,403
West North Central.....	323	1,563	210	406	858	3,082	3,206	4,838	64	6	322	1,588
South Atlantic.....	330	1,150	250	446	821	2,254	2,311	3,439	118	3	256	1,293
Delaware.....	...	...	...	...	...	...	...	...	...	...	...	...
West.....	694	3,056	475	814	1,783	4,932	5,130	7,981	156	9	608	3,430

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF HAND STAMPS AND STENCILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Hand Stamps and Stencils Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3953---	Hand stamps and stencils, total.....	58,272	47,720
3953011	Rubber stamps.....	12,292	9,224
3953031	Metal stamps, marking dies, and seals (include hand presses for seals and marking dies...)	13,977	12,730
3953098	Other marking devices, such as stencils, letters, figures and numerals, stamp pads, branding irons, etc.....	16,897	15,639
3953000	Hand stamps and stencils, not specified by kind.....	15,106	10,127

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-2

ARTISTS' MATERIALS INDUSTRY

(Industry Code 3954--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Artists' Materials Industry shipped products valued at \$25 million, an increase of 3 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 5 percent from 1954 to 1958 to a total of 1.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$12 million in 1958, an increase of 3 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ARTISTS MATERIALS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3954)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	1.8	1.9	-5
Payroll.....	Million dollars...	6.8	6.6	+3
Production workers:				
Number.....	Thousands.....	1.3	1.5	-13
Man-hours.....	Millions.....	2.7	2.9	-7
Wages.....	Million dollars...	4.1	4.0	+3
Value added by manufacture, unadjusted ².....	..do.....	11.6	11.8	-2
Value added by manufacture, adjusted ³.....	..do.....	12.0	11.7	+3
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	13.4	12.6	+6
Value of shipments ⁵.....	..do.....	25.2	24.5	+3
Capital expenditures, new.....	..do.....	0.4	0.4	...
Number of establishments with 20 or more employees ⁶	Number.....	21	19	+11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value-added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Artists' Materials Industry includes establishments engaged primarily in the manufacture of materials and equipment for art work such as airbrushes, drawing tables, and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Artists' Materials Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Artists' Materials Industry amounted to \$25 million. Of this total, \$19 million were products primary to the industry, \$5 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represent 78 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 84 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$24 million of artists' materials were shipped by all producers of these products. Of this total, \$19 million, or 78 percent, were shipped by plants classified in Industry 3954, Artists' Materials, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE ARTISTS' MATERIALS INDUSTRY (S.I.C. CODE 3954) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	1,802	6,800	1,342	2,693	4,119	11,604	12,031	25,208	364	21	1,913	11,836
Northeast.....	761	2,795	567	1,110	1,742	4,248	4,617	10,134	161	11	1,216	7,736
New York.....	313	1,176	222	421	682	2,162	2,191	4,373	45	5	582	3,191
East North Central.....	928	3,543	687	1,400	2,133	6,642	6,679	13,649	119	8	655	3,965
Ohio.....	359	1,418	256	503	839	2,749	2,791	6,698	61	4	237	1,488

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF ARTISTS' MATERIALS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Artists' Materials Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3954011	Artists' materials (including airbrushes, drawing tables and boards, palettes sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and materials).....	24,134	25,932

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-3

CARBON PAPER AND INKED RIBBONS INDUSTRY

(Industry Code ³⁴⁵⁵~~2771~~—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Carbon Paper and Inked Ribbon Industry shipped products valued at \$121 million, an increase of 41 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 19 percent from 1954 to 1958 to a total 5.6 thousand employees in 1958. Value added by manufacture in the industry amounted to \$57 million in 1958, an increase of 44 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE CARBON PAPER AND INKED RIBBONS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3955)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.6	4.7	+19
Payroll.....	Million dollars...	26.6	19.3	+38
Production workers:				
Number.....	Thousands.....	3.7	3.3	+12
Man-hours.....	Millions.....	7.5	6.7	+12
Wages.....	Million dollars...	14.2	10.8	+32
Value added by manufacture, unadjusted ².....	...do.....	54.5	37.8	+44
Value added by manufacture, adjusted ³.....	...do.....	57.3	39.7	+44
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	63.9	46.1	+39
Value of shipments ⁵.....	...do.....	120.7	85.7	+41
Capital expenditures, new.....	...do.....	2.6	1.1	+136
Number of establishments with 20 or more employees ⁶	Number.....	60	43	+40

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Carbon Paper and Inked Ribbon Industry includes establishments engaged primarily in the manufacture of carbon paper for typewriters, sales books, etc.; spirit or gelatin process stencil paper; and inked ribbons for typewriters, adding machines, cash registers, etc. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Carbon Paper and Inked Ribbons Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Carbon Paper and Inked Ribbon Industry amounted to \$121 million. Of this total, \$107 million were products primary to the industry, \$5 million were products primary to other industries, and \$9 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$119 million of carbon paper and inked ribbons were shipped by all producers of these products. Of this total, \$107 million, or 89 percent, were shipped by plants classified in Industry 3955, Carbon Paper and Inked Ribbons, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorized an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE CARBON PAPER AND INKED RIBBONS INDUSTRY (S.I.C. CODE 3955) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,590	26,642	3,700	7,537	14,195	54,500	57,264	120,703	2,625	60	4,742	37,758
New England.....	730	3,030	502	977	1,715	7,400	7,711	16,484	232	8	760	5,809
Middle Atlantic.....	2,894	13,503	1,900	3,807	7,220	26,757	27,621	58,179	1,817	26	2,445	20,265
New York.....	1,991	9,427	1,268	2,589	4,710	19,886	20,958	41,956	1,583	18	1,576	14,484
North Central.....	1,325	6,883	850	1,841	3,584	14,884	15,947	32,203	384	13	982	8,619
Ohio.....	496	2,595	275	549	1,186	4,914	5,131	10,489	105	2	192	2,005
Illinois.....	533	2,405	386	822	1,515	6,426	7,428	12,787	136	9	506	4,848
West.....	419	2,354	269	552	1,054	3,467	3,899	8,955	25	7	321	1,980

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF CARBON PAPER AND INKED RIBBONS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Carbon Paper and Inked Ribbons Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (thousand dozens)	Value (\$1,000)	Quantity (thousand dozens)	Value (\$1,000)
3955----	Carbon paper, stencil paper, and inked ribbons, total.....	xxx	119,426	xxx	90,990
3955011	Inked ribbons:				
	Typewriter (all types):				
	Quantity reported.....	2,529	15,735	2,518	16,608
	Quantity not reported.....	xxx	3,373	...	...
3955019	Other inked ribbons (all types):				
	Quantity reported.....	1,148	8,096	xxx	8,138
	Quantity not reported.....	xxx	2,924		
3955031	Coated carbon paper (in roll and sheet):				
	One-time.....	xxx	22,801	xxx	15,013
3955035	Other than one-time.....	xxx	29,013	xxx	22,854
3955061	Stencil paper:				
	Spirit and gelatin process master copies (include master sets)...	xxx	18,180	xxx	10,833
3955098	All other (including mimeograph stencil paper).....	xxx	14,517	xxx	16,273
3955000	Carbon paper, stencil paper and inked ribbons, not specified by kind	xxx	4,789	xxx	1,271

xxx Not applicable.

DEPARTMENT OF COMMERCE
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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-4

ARTIFICIAL FLOWERS INDUSTRY

(Industry Code 3962—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Artificial Flowers Industry shipped products valued at \$65 million, an increase of 23 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 7 percent from 1954 to 1958 to a total of 6.8 thousand employees in 1958. Value added by manufacture in the industry amounted to \$35 million in 1958, an increase of 16 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE ARTIFICIAL FLOWERS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3962)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.8	7.3	-7
Payroll.....	Million dollars...	19.1	17.3	+10
Production workers:				
Number.....	Thousands.....	5.9	6.7	-12
Man-hours.....	Millions.....	11.2	12.0	-7
Wages.....	Million dollars...	14.4	13.4	+7
Value added by manufacture, unadjusted ².....	...do.....	33.1	29.0	+14
Value added by manufacture, adjusted ³.....	...do.....	34.8	29.9	+16
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	30.7	23.3	+32
Value of shipments ⁵.....	...do.....	65.4	53.0	+23
Capital expenditures, new.....	...do.....	0.9	0.4	+110
Number of establishments with 20 or more employees ⁶	Number.....	102	103	-1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Artificial Flowers Industry includes establishments engaged primarily in the manufacture of artificial flowers, fruits, and foliage made from all materials except glass (Industry 3231, Products of Purchased Glass); in producing fancy feathers, plumes and articles made principally of feathers and plumes; and in curling, dyeing and renovating ostrich feathers for the trade. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Artificial Flowers Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Artificial Flowers Industry amounted to \$65 million. Of this total, \$58 million were products primary to the industry, \$1 million were products primary to other industries, and \$6 million were receipts for miscellaneous activities. The industry shipments of primary products represented 98 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$59 million of artificial flowers were shipped by all producers of these products. Of this total, \$58 million, or 98 percent, were shipped by plants classified in Industry 3962, Artificial Flowers, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE ARTIFICIAL FLOWERS INDUSTRY (S.I.C. CODE 3962) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	6,801	19,131	5,947	11,183	14,409	33,112	34,831	65,361	888	102	7,306	28,952
New England.....	563	1,516	525	1,017	1,237	2,437	2,483	3,762	43	2	528	1,795
Middle Atlantic.....	4,547	13,300	3,970	7,654	10,018	23,741	24,989	48,384	567	70	5,099	20,827
New York.....	3,496	10,270	3,049	5,871	7,818	18,717	19,888	36,319	433	56	4,282	17,781
New Jersey.....	333	800	292	527	648	1,743	1,716	3,077	37	5	204	725
Pennsylvania.....	718	2,230	629	1,256	1,552	3,281	3,385	8,988	97	9	611	2,320
North Central.....	956	2,741	808	1,401	1,887	4,104	4,403	7,724	160	17	1,111	4,340
Illinois.....	275	855	236	380	540	1,318	1,453	2,217	34	4	459	2,185
South.....	538	1,167	472	842	926	1,943	2,036	3,908	84	10	421	1,342

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF FEATHERS, PLUMES AND ARTIFICIAL FLOWERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Artificial Flowers Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3962011	Feathers, plumes, and artificial flowers.....	59,494	48,603

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-5

LEAD PENCILS AND CRAYONS INDUSTRY

(Industry Code 3952—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Lead Pencils and Crayons Industry shipped products valued at \$73 million, an increase of 23 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 2 percent from 1954 to 1958 to a total of 4.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$36 million in 1958, an increase of 17 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LEAD PENCILS AND CRAYONS INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3952)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	4.9	5.0	-2
Payroll.....	Million dollars...	19.4	17.1	+14
Production workers:				
Number.....	Thousands.....	3.4	3.8	-11
Man-hours.....	Millions.....	6.8	7.8	-13
Wages.....	Million dollars...	10.6	10.8	-2
Value added by manufacture, unadjusted ².....	..do.....	36.2	29.2	+24
Value added by manufacture, adjusted ³.....	..do.....	35.9	30.6	+17
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	35.6	29.8	+20
Value of shipments ⁵.....	..do.....	73.2	59.6	+23
Capital expenditures, new.....	..do.....	1.7	1.7	-
Number of establishments with 20 or more employees ⁶	Number.....	33	34	-3

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Lead Pencils and Crayons Industry includes establishments engaged primarily in the manufacture of lead pencils, pencil leads, and crayons. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Lead Pencils and Crayons Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Lead Pencils and Crayons Industry amounted to \$73 million. Of this total, \$61 million were products primary to the industry, \$8 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 89 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 88 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$65 million of lead pencils and crayons were shipped by all producers of these products. Of this total, \$61 million, or 94 percent, were shipped by plants classified in Industry 3952, Lead Pencils and Crayons, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE LEAD PENCILS AND CRAYONS INDUSTRY (S.I.C. CODE 3952) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	4,887	19,387	3,371	6,772	10,632	36,216	35,884	73,161	1,677	33	5,029	29,224
New England.....	738	3,531	435	951	1,621	6,108	5,119	9,552	70	4	129	597
Middle Atlantic.....	1,968	8,060	1,336	2,554	4,324	14,260	14,229	26,571	1,040	12	2,911	17,664
New Jersey.....	682	2,592	436	785	1,335	3,584	3,650	7,915	121	5	851	4,338
North Central.....	627	2,223	369	699	1,211	4,811	5,168	8,917	71	4	558	3,853
South.....	1,449	5,028	1,145	2,402	3,112	9,782	9,804	25,531	486	11	1,294	5,882

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF LEAD PENCILS AND CRAYONS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Lead Pencils and Crayons Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (thousand gross)	Value (\$1,000)	Quantity (thousand gross)	Value (\$1,000)
3952—	Lead pencils and crayons, total.....	xxx	64,923	xxx	50,986
	Pencils, non-mechanical:.....				
3952011	Black lead.....	8,810	27,710	10,404	25,186
3952015	Other (indelible colored, etc.).....	2,407	11,802	1,090	5,921
3952023	Pencil leads (including refill leads for mechanical pencils) and non-mechanical pencil parts for sale separately.....	xxx	10,800	xxx	5,355
3952053	Crayons, including chalk, except artist's and tailors.....	xxx	13,794	xxx	14,524
3952000	Lead pencils and crayons, not specified by kind.....	xxx	817	xxx	...

xxx Not applicable.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-6

COSTUME JEWELRY INDUSTRY

(Industry Code 3961--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Costume Jewelry Industry shipped products valued at \$253 million, an increase of 1 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 9 percent from 1954 to 1958 to a total of 25.2 thousand employees in 1958. Value added by manufacture in the industry amounted to \$137 million in 1958, an increase of 4 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE COSTUME JEWELRY INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3961)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	25.2	27.7	-9
Payroll.....	Million dollars...	82.8	79.0	+5
Production workers:				
Number.....	Thousands.....	21.3	24.3	-12
Man-hours.....	Millions.....	40.6	46.7	-13
Wages.....	Million dollars...	58.1	58.4	-1
Value added by manufacture, unadjusted ²	do.....	132.8	129.2	+3
Value added by manufacture, adjusted ³	do.....	137.4	131.8	+4
Cost of materials, fuel, electricity, and contract work ⁴	do.....	116.0	117.6	-1
Value of shipments ⁵	do.....	252.9	249.6	+1
Capital expenditures, new.....	do.....	5.7	3.6	+58
Number of establishments with 20 or more employees ⁶	Number.....	255	288	-12

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Costume Jewelry Industry includes establishments engaged primarily in the manufacture of costume jewelry, costume novelties and ornaments made of all materials, except precious metal and precious or semiprecious stones (Industry 3911, Jewelry, Precious Metal). This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Costume Jewelry Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Costume Jewelry Industry amounted to \$253 million. Of this total, \$27 million were products primary to the industry, \$13 million were products primary to other industries, and \$13 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$236 million of costume jewelry were shipped by all producers of these products. Of this total, \$227 million, or 96 percent, were shipped by plants classified in Industry 3961, Costume Jewelry, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census Of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1609. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE COSTUME JEWELRY INDUSTRY (S.I.C. CODE 3961), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	25,164	82,838	21,312	40,571	58,130	132,777	137,383	252,946	5,736	255	27,744	129,239
New England.....	14,936	49,594	12,879	24,476	34,772	73,586	78,344	137,834	2,653	127	15,484	67,490
Massachusetts.....	3,674	14,151	3,123	6,168	9,040	23,264	24,953	37,760	256	21	3,592	18,777
Rhode Island.....	10,954	33,919	9,534	17,840	25,037	48,225	51,291	97,044	2,335	104	11,670	47,280
Middle Atlantic.....	8,757	28,592	7,221	13,770	19,885	50,505	50,096	99,719	2,458	107	11,033	56,102
New York.....	8,093	26,634	6,645	12,678	18,490	47,324	46,861	93,149	2,319	99	10,438	53,430
North Central.....	487	1,717	405	871	1,341	3,518	3,663	6,353	99	7	429	1,900
South.....	338	828	277	475	596	1,350	1,304	2,462	192	7	217	925
West.....	646	2,107	530	979	1,536	3,818	3,976	6,578	334	7	579	2,821
California.....	520	1,819	427	807	1,298	3,234	3,278	5,394	204	5	457	2,351

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF COSTUME JEWELRY SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Costume Jewelry Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3961---	Costume jewelry, total.....	235,680	235,232
	Base metal, whether or not electroplated with gold, silver, chromium, etc.:		
3961011	Rings and ring mountings.....	4,659	2,148
3961021	Men's jewelry (excluding watch attachments).....	28,434	23,734
3961031	Women's and children's jewelry and costume novelties (excluding watch attachments)...	99,937	115,158
3961041	Watch attachments (bracelets for watches).....	8,961	12,929
3961051	Fraternal, college, and school jewelry and emblems, including military insignia (excluding rings).....	4,130	2,992
3961061	Religious jewelry, such as rosaries, chaplets, religious medals, crosses, etc.....	4,147	2,484
3961071	Other jewelry worn or carried about the person, except cigar and cigarette cases (code 39993) and lighters, compacts, and vanity cases (code 39860).....	9,202	6,701
3961081	Imitation pearls (including necklaces).....	13,807	16,848
3961098	Other costume jewelry and costume novelties made of plastics, wood, leather, etc.....	18,044	15,500
3961000	Costume jewelry, not specified by kind.....	44,359	36,738

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U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39C-7

BUTTONS INDUSTRY

(Industry Code 3963—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Buttons Industry shipped products valued at \$69 million, a decrease of 1 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 24 percent from 1954 to 1958 to a total of 6.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$38 million in 1958, a decrease of 1 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE BUTTONS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3963)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.5	8.5	-24
Payroll.....	Million dollars...	21.5	23.2	-7
Production workers:				
Number.....	Thousands.....	5.5	7.4	-26
Man-hours.....	Millions.....	10.4	14.1	-26
Wages.....	Million dollars...	15.8	17.5	-10
Value added by manufacture, unadjusted ².....	...do.....	36.9	36.7	+1
Value added by manufacture, adjusted ³.....	...do.....	37.9	38.2	-1
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	30.6	31.1	-2
Value of shipments ⁵.....	...do.....	68.6	69.1	-1
Capital expenditures, new.....	...do.....	1.4	1.1	+27
Number of establishments with 20 or more employees ⁶	Number.....	87	109	-20

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Buttons Industry includes establishments engaged primarily in the manufacture of buttons, button parts, and button blanks and molds, of all materials, except precious metal and precious or semiprecious stone. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Buttons Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Buttons Industry amounted to \$69 million. Of this total, \$63 million were products primary to the industry, and \$6 million were receipts for miscellaneous activities.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$72 million of buttons were shipped by all producers of these products.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE BUTTONS INDUSTRY (S.I.C. CODE 3963), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	6,458	21,517	5,502	10,443	15,813	36,893	37,924	68,559	1,413	87	8,471	36,679
New England.....	604	2,222	513	1,025	1,650	3,707	3,880	6,443	244	6	574	2,266
Connecticut.....	417	1,593	350	717	1,199	2,751	2,900	4,992	140	3	363	1,384
Middle Atlantic.....	3,880	13,197	3,298	6,192	9,726	23,432	24,196	43,644	855	59	4,921	23,509
New York.....	3,172	10,660	2,690	5,032	7,803	19,476	20,097	35,877	715	48	4,144	19,987
North Central.....	1,151	3,708	949	1,742	2,460	5,578	5,615	9,896	125	13	1,951	7,005
South.....	734	2,148	663	1,310	1,768	3,738	3,800	7,948	177	8	944	3,578

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF BUTTONS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Buttons Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total production			
		1958		1954	
		Quantity (1,000 gross)	Value (\$1,000)	Quantity (1,000 gross)	Value (\$1,000)
3963---	Buttons, total.....	xxx	72,003	xxx	63,983
	Buttons (except buttons of precious metals or precious stones):				
	Metal:				
3963011	Sew-on type.....	(NA)	5,825	(NA)	2,684
3963015	Other metal buttons, including mechanically applied types, etc.....	(NA)	3,272	(NA)	2,384
	Plastic:				
3963021	Casein and casein compound.....	(NA)	4,935	(NA)	4,698
	Other plastics:				
3963023	Thermosetting.....	57,061	19,655	46,488	13,929
3963025	Thermoplastic.....	(NA)	6,537	(NA)	3,963
	Pearl or shell:				
3963031	Fresh water.....	2,282	3,184	6,444	6,027
3963035	Ocean.....	(NA)	4,733	7,320	9,640
3963061	Button blanks or molds, backs and parts for sale as such.....	xxx	9,910	xxx	4,210
3963098	Other buttons (fabric covered, wood, bone and hoof, vegetable, ivory, leather, etc.)..	xxx	4,712	xxx	6,667
3963000	Buttons, not specified by kind.....	xxx	9,240	xxx	9,781

NA Not available.

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39C-8

NEEDLES, PINS, AND FASTENERS INDUSTRY

(Industry Code 3964—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Needles, Pins, and Fasteners Industry shipped products valued at \$221 million, an increase of 7 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 24 percent from 1954 to 1958 to a total of 17.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$125 million in 1958, an increase of 6 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE NEEDLES, PINS, AND FASTENERS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3964)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	17.7	23.2	-24
Payroll.....	Million dollars...	69.8	80.8	-14
Production workers:				
Number.....	Thousands.....	14.2	18.9	-25
Man-hours.....	Millions.....	26.8	35.9	-25
Wages.....	Million dollars...	47.8	56.7	-16
Value added by manufacture, unadjusted ².....	..do.....	125.5	121.6	+3
Value added by manufacture, adjusted ³.....	..do.....	125.2	118.4	+6
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	94.0	84.2	+12
Value of shipments ⁵.....	..do.....	220.8	206.6	+7
Capital expenditures, new.....	..do.....	4.2	5.0	-16
Number of establishments with 20 or more employees ⁶	Number.....	128	130	-2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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The Needles, Pins, and Fasteners Industry includes establishments engaged primarily in the manufacture of notions, such as machine and hand needles, pins, buttons and eyes, eyelets, buckles, and slide and snap fasteners. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Needles, Pins, and Fasteners Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Needles, Pins, and Fasteners Industry amounted to \$221 million. Of this total, \$197 million were products primary to the industry, \$16 million were products primary to other industries, and \$8 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 82 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$222 million of needles, pins, and fasteners were shipped by all producers of these products. Of this total, \$197 million, or 89 percent, were shipped by plants classified in Industry 3964, Needles, Pins, and Fasteners, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE NEEDLES, PINS, AND FASTENERS INDUSTRY (S.I.C. CODE 3964), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	17,754	69,889	14,227	26,816	47,881	125,562	125,255	220,850	4,273	128	23,152	121,625
New England.....	5,967	25,539	4,772	8,739	17,818	40,807	41,273	62,672	1,543	32	10,365	59,663
Massachusetts.....	555	2,349	480	920	1,820	4,415	4,276	5,945	84	5	649	3,753
Rhode Island.....	887	3,111	687	1,133	1,915	5,717	5,602	8,678	80	4	941	3,858
Connecticut.....	4,396	19,612	3,486	6,446	13,668	30,017	30,828	47,279	1,205	22	8,454	50,896
Middle Atlantic.....	8,557	33,406	6,657	12,583	22,124	58,048	58,114	111,006	1,902	73	10,574	49,178
New York.....	5,294	19,434	4,294	7,891	13,232	31,371	30,840	67,880	1,235	58	5,802	28,589
New Jersey.....	1,332	5,569	1,126	2,253	4,026	12,927	12,851	21,559	232	10	1,757	8,648
Pennsylvania.....	1,931	8,403	1,237	2,439	4,866	13,750	14,423	21,567	435	5	3,015	11,940
North Central.....	1,910	6,966	1,579	3,039	4,312	15,235	16,148	26,163	286	13	1,417	7,636
Illinois.....	1,062	4,243	827	1,539	2,527	7,269	7,788	12,281	123	7	828	4,474
South.....	1,183	3,514	1,102	2,238	3,028	10,677	11,010	19,309	464	8	694	4,768

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.--QUANTITY AND VALUE OF NEEDLES, PINS, AND FASTENERS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Needles, Pins, and Fasteners Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1958		1954	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
3964---	Needles, pins, and fasteners, total.....	.....	xxx	220,204	xxx	176,981
	Needles, except hypodermic, phonograph, and styli:					
	Knitting machine:					
3964011	Latch.....	Thousand.....	xxx	(1)		
3964013	Spring-beard.....	.....do.....	xxx		112,612	6,245
3964015	Sewing machine (household and industrial dry thread).....	.....do.....	149,673		193,504	5,638
3964019	Other needles, except hypodermic, phonograph and styli (including shoe machine, hand sewing, hand knitting, crocheting, darning, etc.).....	.....do.....	xxx	110,316	xxx	2,763
	Pins (except jewelry):					
3964021	Common or toilet (including dressmakers' pins).....	Thousand pounds..	2,433	3,799	3,151	4,045
	Hairpins, metal:					
3964023	"Bobby" type.....	.....do.....	9,369	12,119	9,355	10,803
3964025	Other types.....	.....do.....	(NA)	617	(NA)	533
3964027	Safety pins.....	Thousand gross...	9,161	2,989	10,154	3,771
3964029	Other pins (hatpins, glasshead pins, plastic hairpins, etc.)..	.....do.....	(NA)	7,602	(NA)	2,843
	Fasteners, buckles, and apparel trimming:					
3964031	Zippers or slide fasteners ²	Million units....	1,473	87,096	1,150	74,421
	Snap fasteners					
3964033	Sew on type.....	Great gross.....	(NA)	1,023	(NA)	2,538
3964035	Other snap fasteners such as 4-part, riveted, or mechanically applied type, etc.....	.....do.....	(NA)	18,558	xxx	13,122
3964037	Metal buckles for wearing apparel (including those covered with fabric or other material, but excluding costume jewelry)	.....	xxx	13,070	xxx	14,369
3964039	Other fasteners, buckles (except shoe) and apparel trimming (hooks and eyes, rivets and burrs, trimming, plastic buckles, etc.).....	.....	xxx	19,567	xxx	16,523
3964041	Tape (hook and eye and snap) fasteners.....	Gross yards.....	187,332	5,586	158,837	5,182
3964051	Hair curlers, except rubber, and except those designed for beauty parlor use.....	Great gross.....	(NA)	10,368	65,926	5,482
3964000	Needles, pins, fasteners, hooks and eyes, and similar notions, not specified by kind.....	.....	xxx	21,210	xxx	8,703

NA--Not available.

xxx Not applicable.

¹Latch and spring-beard knitting machine needles are included with "other needles," product code 3964019.

²For continuous chains, each 12 inches counted as one unit.

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USCOMM—DC

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC(P)-39C-9

PENS AND MECHANICAL PENCILS INDUSTRY

(Industry Code 3951—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Pens and Mechanical Pencils Industry shipped products valued at \$146 million, an increase of 12 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 1 percent from 1954 to 1958 to a total of 11.0 thousand employees in 1958. Value added by manufacture in the industry amounted to \$88 million in 1958, an increase of 5 percent from 1954 when the previous census was

taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PENS AND MECHANICAL PENCILS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3951)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	11.0	10.9	+1
Payroll.....	Million dollars...	44.9	44.1	+2
Production workers:				
Number.....	Thousands.....	8.4	8.1	+4
Man-hours.....	Millions.....	16.0	16.4	-2
Wages.....	Million dollars...	27.4	25.2	+9
Value added by manufacture, unadjusted ².....	..do.....	89.3	83.8	+7
Value added by manufacture, adjusted ³.....	..do.....	88.2	84.1	+5
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	55.3	45.9	+20
Value of shipments ⁵.....	..do.....	145.6	130.0	+12
Capital expenditures, new.....	..do.....	3.7	3.1	+19
Number of establishments with 20 or more employees ⁶	Number.....	64	61	+5

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Pens and Mechanical Pencil Industry includes establishments engaged primarily in the manufacture of fountain pens, stylographic pens, mechanical pencils, penpoints, penholders, and parts for pens and mechanical pencils. Ball point type pens and refills are also included in this industry. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Pens and Mechanical Pencils Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Pens and Mechanical Pencils Industry amounted to \$146 million. Of this total, \$120 million were products primary to the industry, \$22 million were products primary to other industries, and \$4 million were receipts for miscellaneous activities. The industry shipments of primary products represented 85 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$136 million of Pens and Mechanical Pencils were shipped by all producers of these products. Of this total, \$120 million, or 89 percent, were shipped by plants classified in Industry 3951, Pens and Mechanical Pencils, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE PENS AND MECHANICAL PENCILS INDUSTRY (S.I.C. CODE 3951), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	10,957	44,899	8,360	15,980	27,430	89,326	88,205	145,566	3,703	64	10,879	83,793
New England.....	644	2,442	540	1,025	1,681	3,441	3,270	6,248	101	5	666	2,676
Middle Atlantic.....	3,921	14,082	3,309	6,385	9,889	23,302	23,281	48,141	1,004	37	3,251	20,545
New York.....	2,225	6,133	2,073	3,926	4,918	10,395	10,732	27,770	465	29	1,408	6,460
East North Central.....	2,035	10,383	1,142	1,983	4,682	20,079	20,064	28,126	674	5	2,768	23,659
West North Central.....	1,721	7,498	1,289	2,461	4,835	17,757	16,657	23,551	331	6	2,382	21,668
South.....	1,719	6,243	1,368	2,731	3,555	13,865	13,831	19,108	788	4	1,122	8,710
Pacific.....	917	4,251	712	1,395	2,788	10,882	11,102	20,392	805	7	689	6,532
California.....	917	4,251	712	1,395	2,788	10,882	11,102	20,392	805	7	689	6,532

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF PENS AND MECHANICAL PENCILS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Pens and Mechanical Pencils Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 of units)	Value (\$1,000)	Quantity (1,000 of units)	Value (\$1,000)
3951---	Pens and mechanical pencils, total.....	xxx	135,541	xxx	118,110
	Pens:				
	Fountain pens, complete (all types, except ball-point):				
3951011	\$1.00 each and under (retail price).....	13,049	3,932	17,024	4,915
3951015	\$1.01 to \$5.00 each (retail price).....			6,271	7,688
3951016	Over \$5.00 each (retail price).....	11,555	27,541	5,939	30,053
	Ball-point type pens, complete:				
3951017	\$.50 each and under (retail price).....	296,618	31,478	82,095	9,852
3951018	Over \$.50 each (retail price).....	43,224	24,258	46,685	24,308
3951019	Desk pen sets, including fountain-pen type, ball point type, and ink well reservoir (dip) type.....	2,816	4,628	1,682	4,281
	Mechanical pencils.....	54,487	15,114	52,497	19,027
3951053	\$.50 each and under (retail price).....	38,823	5,813	33,489	4,416
3951055	Over \$.50 each (retail price).....	15,664	9,301	19,008	14,611
3951063	Miscellaneous pen and mechanical pencil parts, for sale separately such as penholders, pen points (all types), renewal parts, etc....	xxx	16,401	xxx	17,986
3951000	Pens and mechanical pencils, not specified by kind.....	xxx	12,189	...	...

xxx Not applicable.

¹Includes an undetermined amount of ink and cartridges.

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

February 1960

MC(P)-39D-1

CANDLES INDUSTRY

(Industry Code 3984--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Candles Industry shipped products valued at \$34 million, an increase of 11 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 17 percent from 1954 to 1958 to a total of 2.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$18 million in 1958, an increase of 4 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE CANDLES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3984)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.5	3.0	-17
Payroll.....	Million dollars...	9.3	9.4	-1
Production workers:				
Number.....	Thousands.....	1.9	2.3	-17
Man-hours.....	Millions.....	3.6	4.7	-23
Wages.....	Million dollars...	5.4	6.1	-12
Value added by manufacture, unadjusted ².....	..do.....	17.8	16.5	+8
Value added by manufacture, adjusted ³.....	..do.....	17.7	17.0	+4
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	15.7	13.6	+15
Value of shipments ⁵.....	..do.....	33.8	30.4	+11
Capital expenditures, new.....	..do.....	0.5	0.8	-38
Number of establishments with 20 or more employees.....	Number.....	25	23	+9

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Candles Industry includes establishments engaged primarily in the manufacture of candles from fatty acids, or from mineral and animal waxes. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Candles Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Candles Industry amounted to \$34 million. Of this total, \$30 million were products primary to the industry, \$2 million were products primary to other industries, and \$2 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 87 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should

be clearly distinguished from the total value of primary products of the industry shipped by all producers. The later figure, appearing in table 3, indicates that \$32 million of candles were shipped by all producers of these products. Of this total, \$30 million, or 94 percent, were shipped by plants classified in Industry 3984, Candles while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE CANDLES INDUSTRY (S.I.C. CODE 3984) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	2,516	9,268	1,877	3,555	5,411	17,788	17,668	33,802	482	25	3,010	16,486
Middle Atlantic.....	1,653	6,296	1,199	2,317	3,517	11,646	11,498	22,041	335	15	2,196	12,280
New York.....	1,316	5,180	921	1,805	2,810	9,646	9,511	17,950	254	11	1,844	10,273
North Central.....	433	1,546	333	632	956	3,328	3,255	6,281	74	3	405	2,065

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF CANDLES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Candles Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments.")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3984011	Candles.....	31,746	27,426



1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -39D-2

FIREWORKS AND PYROTECHNICS INDUSTRY

(Industry Code 3985--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Fireworks and Pyrotechnics Industry shipped products valued at \$17 million, a decrease of 24 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 35 percent from 1954 to 1958 to a total of 1.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$10 million in 1958, a decrease of 16 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE FIREWORKS AND PYROTECHNICS INDUSTRY FOR THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3985)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	1.7	2.6	-35
Payroll.....	Million dollars...	5.6	7.4	-24
Production workers:				
Number.....	Thousands.....	1.5	2.3	-35
Man-hours.....	Millions.....	2.8	4.4	-36
Wages.....	Million dollars...	4.2	5.6	-25
Value added by manufacture, unadjusted ².....	..do.....	9.8	11.9	-18
Value added by manufacture, adjusted ³.....	..do.....	9.9	11.5	-16
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	7.0	10.0	-30
Value of shipments ⁵.....	..do.....	16.8	22.1	-24
Capital expenditures, new.....	..do.....	(7)	(7)	xxx
Number of establishments with 20 or more employees ⁶	Number.....	20	25	-20

xxx Not applicable.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁷Less than \$500 thousand.



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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Fireworks and Pyrotechnics industry includes establishments engaged primarily in the manufacture of fireworks of all kinds, flares, flashlight bombs, and railroad torpedoes and fuses. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Fireworks and Pyrotechnics Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Fireworks and Pyrotechnics Industry amounted to \$16 million. Of this total, \$13 million were products primary to the industry, and \$3 million were products primary to other industries. The industry shipments of primary products represented 84 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 89 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total

value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$14.0 million of fireworks and pyrotechnics were shipped by all producers of these products. Of this total, \$13.0 million, or 93 percent, were shipped by plants classified in Industry 3985, Fireworks and Pyrotechnics while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE FIREWORKS AND PYROTECHNICS INDUSTRY (S.I.C. Code 3985) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	1,678	5,621	1,474	2,842	4,247	9,828	9,912	16,804	342	20	2,637	11,931
Northeast.....	371	1,282	329	675	1,007	2,500	2,412	4,045	66	5	...	...
North Central.....	959	3,112	840	1,618	2,500	5,182	5,289	9,028	240	8	...	...
Ohio.....	787	2,489	685	1,309	1,978	3,783	3,927	6,623	213	4	276	1,068
South and West.....	348	1,227	305	549	740	2,146	2,211	3,731	36	7	1,562	7,077

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF FIREWORKS AND PYROTECHNICS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Fireworks and Pyrotechnics Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3985011	Fireworks and pyrotechnics.....	13,673	20,537

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39D-3

JEWELRY AND INSTRUMENT CASES INDUSTRY

(Industry Code 3986--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Jewelry and Instrument Cases Industry shipped products valued at \$60 million, a decrease of 10 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 21 percent from 1954 to 1958 to a total of 6.3 thousand employees in 1958. Value added by manufacture in the industry amounted to \$33 million in 1958, a decrease of 12 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE JEWELRY CASES AND INSTRUMENT CASES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3986)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	6.3	8.0	-21
Payroll.....	Million dollars...	21.8	25.1	-13
Production workers:				
Number.....	Thousands.....	5.3	6.4	-17
Man-hours.....	Millions.....	10.1	12.4	-18
Wages.....	Million dollars...	15.3	17.0	-10
Value added by manufacture, unadjusted ².....	..do.....	32.4	37.6	-14
Value added by manufacture, adjusted ³.....	..do.....	32.9	37.2	-12
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	26.9	28.1	-4
Value of shipments ⁵.....	..do.....	59.6	66.0	-10
Capital expenditures, new.....	..do.....	0.9	0.8	+12
Number of establishments with 20 or more employees ⁶	Number.....	60	64	-6

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Jewelry and Instrument Cases Industry includes establishments engaged primarily in the manufacture of jewelry cases and instrument cases, except precious metal cases. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Jewelry and Instrument Cases Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Jewelry and Instrument Cases Industry amounted to \$60 million. Of this total, \$50 million were products primary to the industry, \$8 million were products primary to other industries, and \$2 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$60 million of jewelry and instrument cases were shipped by all producers of these products. Of this total, \$50 million, or 83 percent, were shipped by plants classified in Industry 3986, Jewelry and Instrument Cases, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE JEWELRY CASES AND INSTRUMENT CASES INDUSTRY (S.I.C. CODE 3986), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	6,322	21,840	5,274	10,127	15,319	32,432	32,925	59,643	919	60	8,003	37,559
New England.....	2,818	10,245	2,329	4,277	7,282	14,405	14,850	28,838	555	22	3,296	15,276
Massachusetts.....	1,270	4,687	971	1,618	2,842	5,592	5,458	10,107	126	6	1,689	7,336
Middle Atlantic.....	2,706	9,003	2,298	4,409	6,042	14,019	14,068	24,499	201	28	3,157	15,547
New York.....	1,938	6,302	1,640	3,150	4,116	10,007	10,105	17,892	153	21	2,260	11,175
New Jersey.....	767	2,698	657	1,256	1,923	4,004	3,955	6,593	48	7	707	3,496
North Central.....	541	1,941	432	885	1,465	3,053	3,002	4,815	149	8	1,240	5,735
Illinois.....	418	1,567	313	669	1,111	2,580	2,527	3,957	144	5	974	4,603
South and West.....	257	651	215	556	530	955	1,005	1,491	14	2	308	1,000

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF JEWELRY AND INSTRUMENT CASES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Jewelry and Instrument Cases Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3986011	Jewelry cases and instrument cases, ¹	60028	59663

¹Excludes precious metal cases and musical instrument cases.

DEPARTMENT OF COMMERCE
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POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC (P) -39D-4

LAMP SHADES INDUSTRY

(Industry Code 3987--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Lamp Shades Industry shipped products valued at \$34 million, a decrease of 13 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 22 percent from 1954 to 1958 to a total of 3.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$19 million in 1958, a decrease of 14 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE LAMP SHADES INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3987)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	3.9	5.0	-22
Payroll.....	Million dollars...	11.4	12.5	-9
Production workers:				
Number.....	Thousands.....	3.4	4.5	-24
Man-hours.....	Millions.....	6.5	8.4	-23
Wages.....	Million dollars...	9.2	10.0	-8
Value added by manufacture, unadjusted ².....	.....do.....	18.7	21.5	-13
Value added by manufacture, adjusted ³.....	.....do.....	18.6	21.6	-14
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	15.3	17.5	-13
Value of shipments ⁵.....	.....do.....	34.1	39.1	-13
Capital expenditures, new.....	.....do.....	1.2	(NA)	(NA)
Number of establishments with 20 or more employees ⁶	Number.....	50	69	-28

NA Not available.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Lamp Shades Industry includes establishments engaged primarily in the manufacture of lamp shades of all materials except glass (Industry 3229, Pressed and Blown Glass), and metal (Industry 3471, Lighting Fixtures). This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Lamp Shades Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Lamp Shades Industry amounted to \$34 million. Of this total, \$33 million were products primary to the industry, and \$1 million were products primary to other industries. The industry shipments of primary products represented 97 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$34 million of lamp shades were shipped by all producers of these products. Of this total, \$33 million, or 97 percent, were shipped by plants classified in Industry 3987, Lamp Shades, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1956, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE LAMP SHADES INDUSTRY (S.I.C. Code 3987) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ²	Adjusted ³					
United States, total.....	3,895	11,401	3,434	6,495	9,185	18,736	18,560	34,066	1,237	50	5,025	21,492
Northeast.....	2,710	7,736	2,403	4,532	6,346	12,783	12,613	23,440	531	35	3,522	15,122
New York.....	1,115	3,427	984	1,908	2,835	5,524	5,383	9,966	193	12	1,740	7,529
Pennsylvania.....	738	1,880	686	1,281	1,594	2,975	2,936	5,653	261	12	907	3,437
North Central.....	745	2,359	662	1,263	1,866	3,703	3,724	6,798	649	8	1,078	4,421
Illinois.....	704	2,282	627	1,207	1,803	3,535	3,556	6,469	640	8	977	4,090
South and West.....	440	1,306	369	700	973	2,250	2,223	3,828	57	7	423	1,948
California.....	352	1,108	297	582	819	1,866	1,845	3,114	38	6	379	1,756

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF LAMP SHADES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Lamp Shades Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3987011	Lamp Shades.....	33,805	37,107

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1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39D-5

BROOMS AND BRUSHES INDUSTRY

(Industry Code 3981—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Brooms and Brushes Industry shipped products valued at \$284 million, an increase of 25 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 17.5 thousand employees in 1958. Value added by manufacture in the industry amounted to \$140 million in 1958, an increase of 36 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE BROOMS AND BRUSHES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3981)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	17.5	16.8	+4
Payroll.....	Million dollars...	66.4	54.8	+21
Production workers:				
Number.....	Thousands.....	13.9	13.5	+3
Man-hours.....	Millions.....	26.7	25.6	+4
Wages.....	Million dollars...	44.1	36.3	+22
Value added by manufacture, unadjusted ².....	...do.....	116.9	91.7	+27
Value added by manufacture, adjusted ³.....	...do.....	139.5	102.9	+36
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	144.0	124.0	+16
Value of shipments ⁵.....	...do.....	284.5	227.2	+25
Capital expenditures, new.....	...do.....	4.3	3.1	+39
Number of establishments with 20 or more employees ⁶	Number.....	181	177	+2

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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The Brooms and Brushes Industry includes establishments engaged primarily in the manufacture of household, industrial, and street-sweeping brooms; and brushes such as paint brushes, toothbrushes, toilet brushes, and household and industrial brushes. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Brooms and Brushes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Brooms and Brushes Industry amounted to \$284 million. Of this total, \$199 million were products primary to the industry, \$29 million were products primary to other industries, and \$56 million were receipts for miscellaneous activities. The industry shipments of primary products represented 87 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 91 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$208 million of brooms and brushes were shipped by all producers of these products. Of this total, \$199 million, or 96 percent, were shipped by plants classified in Industry 3981, Brooms and Brushes, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE BROOMS AND BRUSHES INDUSTRY (S.I.C. CODE 3981), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	17,498	66,354	13,894	26,651	44,106	116,949	139,480	284,493	4,260	181	16,826	91,737
New England.....	3,199	13,996	2,482	4,808	9,594	25,129	44,565	84,604	824	20	2,361	14,335
Connecticut.....	698	3,779	599	1,179	2,932	7,504	24,608	48,024	227	3	847	7,505
Middle Atlantic.....	5,474	20,960	4,287	8,241	13,467	37,886	39,545	85,291	1,194	61	5,552	32,476
New York.....	3,921	14,834	3,119	6,070	9,656	28,018	29,277	63,205	775	37	3,796	23,247
New Jersey.....	876	3,750	642	1,200	2,281	6,359	6,698	13,225	143	11	952	6,081
Pennsylvania.....	677	2,376	526	971	1,530	3,509	3,570	8,861	276	13	803	3,147
East North Central.....	4,129	16,727	3,217	6,353	10,561	28,773	29,641	61,170	1,425	44	4,056	23,881
Ohio.....	1,666	7,677	1,226	2,392	4,409	12,728	13,370	26,469	956	13	1,742	10,527
Illinois.....	1,416	5,305	1,164	2,329	3,654	9,439	9,364	19,640	217	17	1,320	6,847
Wisconsin.....	595	2,155	474	973	1,402	3,530	3,735	8,765	205	7	444	2,564
West North Central.....	933	2,803	767	1,315	1,870	4,421	4,399	8,602	105	8	1,163	4,063
Minnesota.....	292	1,363	217	425	825	2,382	2,384	4,553	48	3	311	1,725
South Atlantic.....	1,728	5,537	1,448	2,848	4,016	9,402	9,121	20,101	490	18	1,809	7,704
Maryland.....	931	3,586	760	1,681	2,500	6,310	6,101	12,943	294	7	1,121	5,329
Florida.....	287	677	249	426	505	1,269	1,247	2,332	81	6	160	596
East South Central.....	386	980	345	559	797	2,805	2,811	5,070	22	7	423	2,031
West South Central.....	546	1,399	469	858	1,142	2,218	2,240	5,220	81	6	629	1,957
Texas.....	317	843	270	524	700	1,283	1,305	2,961	55	3	316	1,027
Pacific.....	961	3,502	761	1,439	2,335	5,525	6,350	13,000	110	16	678	4,595
California.....	742	2,620	594	1,146	1,745	4,380	5,095	10,264	78	12	529	3,785

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 5.--QUANTITY AND VALUE OF BROOMS AND BRUSHES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954
 (Includes quantity and value of these products reported not only by establishments classified in the Brooms and Brushes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (thousand dozens)	Value (\$1,000)	Quantity (thousand dozens)	Value (\$1,000)
3981--	Brooms and brushes, total.....	xxx	207,562	xxx	180,751
39811--	Brooms ¹	xxx	33,741	xxx	36,662
3981113	Household floor brooms.....	1,700	19,038	1,960	22,115
3981198	Other brooms (Industrial brooms, whisk brooms, toy brooms, hearth brooms, street-sweeping machine brooms, street brooms, stable brooms, etc.).....	xxx	4,951	xxx	7,237
3981100	Brooms, not specified by kind.....	xxx	9,752	xxx	7,310
39812--	Paint brushes and paint rollers.....	xxx	60,618	xxx	56,809
	Paint and varnish brushes, including whitewash, kalsomine, paperhanging, marking, and stencilling brushes:				
3981211	Made of pure bristle.....	4,818	30,085	5,405	29,316
3981231	Made of synthetic bristle.....	1,264	14,917	1,089	10,269
3981251	Made of other materials, including mixtures.....	623	6,185	742	7,522
3981271	Paint rollers, complete units.....	616	8,186	551	8,199
3981200	Paint brushes and paint rollers, not specified by kind.....	xxx	1,245	xxx	1,503
39813--	Other brushes.....	xxx	102,942	xxx	84,679
3981311	Artists' brushes and hair pencils, except artists' air brushes..	2,014	4,002	1,687	4,094
	Personal brushes:				
3981321	Tooth brushes.....	12,179	20,514	10,731	14,186
3981325	Shaving brushes.....	xxx	937	233	1,641
3981327	Hairbrushes.....	1,304	8,566	1,300	9,631
3981329	Other.....	xxx	4,465	xxx	3,293
	Maintenance brushes (Floor sweeps and brushes, scrub brushes, dusting brushes, window brushes, etc.; excluding twisted-in-wire brushes):				
3981335	Household.....	xxx	13,903	xxx	22,036
3981337	Industrial.....	xxx	13,094	xxx	
3981343	Industrial brushes, except maintenance (including power-driven rotary, end, cup, jewelers' and dentists' brushes, etc.).....	xxx	14,264	xxx	12,431
3981351	Twisted-in-wire brushes (all types).....	xxx	9,677	xxx	9,862
3981398	Other brushes.....	xxx	8,168	xxx	4,058
3981300	Other brushes, not specified by kind.....	xxx	5,352	xxx	3,447
3981000	Brooms and brushes, not specified by kind.....	xxx	10,261	xxx	2,601

xxx Not applicable.

¹Includes upright wound brooms, metal case brooms, or any other brooms of similar construction made of broomcorn or other fiber.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39D-6

MATCHES INDUSTRY

(Industry Code 3983—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Matches Industry shipped products valued at \$67 million, an increase of 10 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 18 percent from 1954 to 1958 to a total of 5.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$42 million in 1958, an increase of 17 percent from 1954 when the previous census was taken.

Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE MATCHES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3983)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	5.1	6.2	-18
Payroll.....	Million dollars...	21.1	21.3	-1
Production workers:				
Number.....	Thousands.....	4.4	5.1	-14
Man-hours.....	Millions.....	8.5	10.3	-17
Wages.....	Million dollars...	16.4	15.9	+3
Value added by manufacture, unadjusted ².....	.....do.....	40.7	35.4	+15
Value added by manufacture, adjusted ³.....	.....do.....	41.8	35.6	+17
Cost of materials, fuel, electricity, and contract work ⁴.....	.....do.....	26.3	25.3	+4
Value of shipments ⁵.....	.....do.....	67.0	60.8	+10
Capital expenditures, new.....	.....do.....	0.9	0.8	+12
Number of establishments with 20 or more employees ⁶	Number.....	20	20	-

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Matches Industry includes establishments engaged primarily in the manufacture of matches, regardless of the material used. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Matches Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Matches Industry amounted to \$67 million. Of this total, \$66 million were products primary to the industry, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 100 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 100 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$68 million of matches were shipped by all producers of these products. Of this total, \$66 million, or 98 percent, were shipped by plants classified in Industry 3983, Matches, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE MATCHES INDUSTRY (S.I.C. CODE 3983), BY REGIONS: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	5,127	21,097	4,350	8,510	16,400	40,669	41,776	67,018	942	20	6,191	35,391
Northeast.....	1,746	7,421	1,452	2,789	5,379	12,488	12,483	20,366	141	5	1,792	10,560
East North Central.....	1,875	8,015	1,555	3,121	6,273	16,845	17,338	27,568	544	7	2,825	15,839
South and West.....	618	2,407	541	1,026	1,955	5,796	6,311	9,260	214	5	621	3,642

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—QUANTITY AND VALUE OF MATCHES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Matches Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments".)

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (millions of matches)	Value (\$1,000)	Quantity (millions of matches)	Value (\$1,000)
3983—	Matches, total.....	xxx	67,972	xxx	61,246
	Wooden stem:				
3983012	Packed in boxes of over 100 matches.....	39,066	8,547	73,146	11,086
	Packed in boxes of not over 100 matches				
3983031	Strike-anywhere.....	17,962	2,862	26,863	3,508
3983035	Strike-on-box.....	56,700	6,238	47,545	5,473
3983061	Paper stem, packed in books or otherwise.....	287,154	50,003	285,606	41,179
3983000	Matches, not specified by kind.....	xxx	322	...	...

xxx Not applicable.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39D-7

MORTICIANS' GOODS

(Industry Code 3988--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Morticians' Goods Industry shipped products valued at \$238 million, an increase of 34 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 4 percent from 1954 to 1958 to a total of 17.4 thousand employees in 1958. Value added by manufacture in the industry amounted to \$129 million in 1958, an increase of 35 percent from 1954 when the previous

census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE MORTICIANS' GOODS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3988)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	17.4	16.7	+4
Payroll.....	Million dollars...	73.8	59.2	+25
Production workers:				
Number.....	Thousands.....	13.8	13.3	+4
Man-hours.....	Millions.....	28.1	26.5	+6
Wages.....	Million dollars...	50.6	40.0	+26
Value added by manufacture, unadjusted ².....	...do.....	125.2	92.0	+36
Value added by manufacture, adjusted ³.....	...do.....	129.0	95.4	+35
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	110.0	82.2	+34
Value of shipments ⁵.....	...do.....	238.0	177.3	+34
Capital expenditures, new.....	...do.....	5.8	2.8	+107
Number of establishments with 20 or more employees ⁶	Number.....	219	217	+1

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



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Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Morticians' Goods Industry includes establishments engaged primarily in the manufacture of caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material (except concrete-Industry 3271, Concrete Products); morticians' supplies and accessories such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Morticians' Goods Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Morticians' Goods Industry amounted to \$238 million. Of this total, \$217 million were products primary to the industry, \$9 million were products primary to other industries, and \$12 million were receipts for miscellaneous activities. The industry shipments of primary products represented 96 percent of the total

manufactured product shipments (primary and secondary). The 1954 ratio was 97 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$219 million of Morticians' Goods were shipped by all producers of these products. Of this total, \$217 million, or 99 percent, were shipped by plants classified in Industry 3988, Morticians' Goods, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE MORTICIANS' GOODS INDUSTRY (S.I.C. CODE 3988) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ³ (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	17,378	73,783	13,818	28,077	50,642	125,173	128,979	238,014	5,759	219	16,729	92,024
New England.....	1,033	4,153	816	1,607	2,908	6,545	6,767	13,230	278	15	850	4,333
Massachusetts.....	655	2,679	549	1,073	2,068	4,390	4,560	8,533	139	8	572	2,837
Middle Atlantic.....	3,655	16,602	3,041	6,179	12,708	27,719	28,372	49,545	762	38	3,533	20,734
New York.....	1,602	5,300	832	1,763	3,825	8,140	8,487	16,029	311	14	1,117	6,441
New Jersey.....	147	612	110	241	452	977	974	2,730	50	3	177	1,001
Pennsylvania.....	2,446	10,690	2,099	4,175	8,431	18,602	18,911	30,786	401	21	2,239	13,290
East North Central.....	5,907	28,818	4,529	9,540	18,433	50,705	51,317	85,899	2,497	60	5,974	36,443
Ohio.....	1,850	8,899	1,327	2,607	5,467	13,989	14,276	23,426	375	14	1,805	10,071
Indiana.....	1,829	9,674	1,440	3,168	5,986	20,165	20,222	32,440	1,038	15	1,774	12,652
Illinois.....	1,510	6,874	1,209	2,594	4,876	11,799	12,063	20,441	1,029	18	1,552	9,387
Michigan.....	353	1,815	279	610	1,170	2,734	2,738	5,389	37	5	456	2,340
Wisconsin.....	365	1,556	274	561	934	2,018	2,018	4,203	18	8	385	1,991
West North Central.....	1,183	4,409	864	1,669	2,730	7,247	7,711	15,423	254	17	1,224	6,419
Iowa.....	235	971	177	360	582	1,476	1,467	2,761	34	4	225	1,234
Missouri.....	604	2,050	431	803	1,277	3,565	3,855	7,374	77	9	643	3,161
South Atlantic.....	1,999	6,085	1,647	3,176	4,237	10,138	11,006	22,998	481	25	1,961	8,725
Virginia.....	228	705	198	390	534	1,375	1,318	2,605	195	3	193	1,029
North Carolina.....	358	1,005	284	582	698	1,893	2,109	4,290	51	7	440	1,505
Georgia.....	923	2,564	812	1,514	1,917	3,967	4,130	8,638	129	8	747	3,241
East South Central.....	1,077	3,239	902	1,770	2,373	5,593	5,847	13,150	384	20	972	3,617
Tennessee.....	683	1,963	587	1,154	1,542	3,581	3,671	8,043	289	12	528	1,706
West South Central.....	1,189	4,259	941	1,921	2,729	7,034	7,646	15,081	174	20	1,035	4,063
Texas.....	632	2,356	486	1,008	1,476	4,170	4,460	8,609	120	12	488	2,160
Mountain.....	136	659	110	215	410	1,218	1,250	2,483	20	1	120	768
Pacific.....	1,199	5,559	968	2,000	4,114	8,974	9,063	20,205	909	23	1,056	6,919
California.....	922	4,105	743	1,559	3,112	6,785	6,792	15,563	885	17	773	5,108

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

1958 CENSUS OF MANUFACTURES

Table 3.—QUANTITY AND VALUE OF MORTICIANS' GOODS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Morticians' Goods Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Total shipments including interplant transfers			
		1958		1954	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
3988---	Morticians' goods, total.....	xxx	219,238	xxx	164,432
39881--	Wood caskets and coffins, total.....	xxx	75,987	xxx	65,909
3988111	Cloth covered, completely lined and trimmed.....	638	39,815	672	40,971
3988152	Hard finish, completely lined and trimmed.....	184	24,058	176	20,809
3988155	Unlined and/or untrimmed.....	71	4,864	135	11,503
3988100	Wood caskets and coffins, not specified by kind.....	xxx	7,250	xxx	2,626
39882--	Metal caskets and coffins, total.....	xxx	97,982	xxx	64,987
3988211	Completely lined and trimmed.....	545	83,509	399	56,479
3988231	Unlined and/or untrimmed.....	188	13,927	174	16,942
3988200	Metal caskets and coffins, not specified by kind.....	xxx	546	xxx	1,566
39883--	Other caskets, boxes, vaults, and morticians' supplies, total.....	xxx	35,714	xxx	30,105
3988311	Other caskets and coffins, completely lined and trimmed (masonite, laminated plastic, etc.).....	xxx	1,118	31	2,029
3988313	Caskets and coffin shells.....	267	6,770	1269	16,929
3988323	Outer burial boxes except concrete (not including shipping boxes)	190	2,475	198	2,941
3988331	Metal burial vaults (12 gauge or heavier) (not including shipping cases).....	(NA)	7,295	80	5,182
3988398	Other morticians' goods, including embalming chemicals, burial garments, wood and metal shipping cases, inner liners, sold as such, and morticians' equipment and supplies.....	xxx	12,549	xxx	11,209
3988300	Other caskets, boxes, vaults, and morticians' goods, not speci- fied by kind.....	xxx	5,507	xxx	1,815
3988000	Morticians' goods, not specified by kind.....	xxx	9,555	xxx	3,431

xxx Not applicable.

NA Not available.

¹For 1954, data for product Code 3988155, "Wood unlined and untrimmed caskets and coffins," and product Code 3988231, "Metal unlined and untrimmed caskets and coffins," are included in product Code 3988313, "Caskets and coffin shells."

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

May 1960

MC (P) -39D-8

PLASTICS PRODUCTS, N.E.C., INDUSTRY

(Industry Code 3971—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Plastics Products, Not Elsewhere Classified Industry shipped products valued \$1,816 million, an increase of 48 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 23 percent from 1954 to 1958 to a total of 112,9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$893 million in 1958, an increase of 49 percent from 1954 when the previous census was taken. Value

added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use or products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE PLASTIC PRODUCTS, N.E.C. INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3971)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	112.9	92.0	+23
Payroll.....	Million dollars...	491.7	350.2	+40
Production workers:				
Number.....	Thousands.....	89.7	75.7	+18
Man-hours.....	Millions.....	182.1	152.2	+20
Wages.....	Million dollars...	336.9	249.0	+35
Value added by manufacture, unadjusted ².....	..do.....	878.8	589.3	+49
Value added by manufacture, adjusted ³.....	..do.....	892.9	598.4	+49
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	929.7	633.0	+47
Value of shipments ⁵.....	..do.....	1,816.1	1,227.6	+48
Capital expenditures, new.....	..do.....	76.3	45.3	+68
Number of establishments with 20 or more employees ⁶	Number.....	1,140	829	+38

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Plastics Products, N.E.C., Industry includes establishments engaged primarily in the manufacture of molded plastic products for the trade, and fabricating miscellaneous finished plastic products, n.e.c. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in the Plastics Products, N.E.C., Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Plastics Products, N.E.C., Industry amounted to \$1,816 million. Of this total, \$1,599 million were products primary to the industry, \$144 million were products primary to other industries, and \$73 million were receipts for miscellaneous activities. The industry shipments of primary products represented 92 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 90 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$1,880 million of fabricated plastics products were shipped by all producers of these products. Of this total, \$1,599 million, or 85 percent, were shipped by plants classified in Industry 3971, Plastics Products, N.E.C., while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

3

Table 2.—GENERAL STATISTICS FOR THE PLASTIC PRODUCTS N.E.C. (S.I.C. CODE 3971) INDUSTRY IN THE UNITED STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	112,862	491,712	89,673	182,106	336,909	878,750	892,873	1,816,067	76,268	1,140	91,967	589,254
New England.....	19,289	75,843	15,757	31,629	53,607	142,057	142,319	274,103	9,890	179	16,408	95,577
Vermont.....	320	1,177	279	536	886	1,928	1,910	3,400	116	5	266	1,598
Massachusetts.....	11,051	42,675	8,963	17,879	29,335	72,401	71,456	145,896	5,105	103	10,481	61,224
Rhode Island.....	2,638	9,292	2,180	4,409	7,191	28,500	28,742	51,451	1,056	21	1,635	9,207
Connecticut.....	3,908	18,092	3,154	6,472	12,727	30,161	30,737	56,967	2,751	39	3,923	25,194
Middle Atlantic.....	35,045	151,110	28,158	57,056	105,640	264,983	270,414	567,578	24,520	361	29,805	191,203
New York.....	16,552	67,475	13,606	27,665	47,858	119,209	121,074	253,922	10,694	196	13,669	86,541
New Jersey.....	10,197	46,304	8,121	16,799	32,237	83,152	85,973	186,252	9,836	101	7,752	53,707
Pennsylvania.....	8,296	37,331	6,431	12,592	25,545	62,622	63,367	127,404	3,990	64	8,384	50,954
East North Central.....	36,170	169,909	28,355	57,760	114,911	301,073	306,627	625,908	24,335	347	29,862	203,450
Ohio.....	10,327	48,267	8,114	16,616	32,625	89,425	92,575	188,925	7,555	98	8,890	65,828
Indiana.....	4,989	24,632	3,722	7,457	16,074	38,049	38,788	92,807	3,692	32	4,431	28,155
Illinois.....	13,770	65,054	10,901	22,470	44,634	115,724	116,115	223,177	9,694	134	11,674	77,043
Michigan.....	4,279	20,134	3,350	6,717	13,444	34,686	35,360	72,713	1,826	50	3,161	23,745
Wisconsin.....	2,805	11,822	2,248	4,500	8,134	23,189	23,789	48,286	1,568	33	1,705	8,677
West North Central.....	4,192	17,112	3,430	6,673	12,248	28,708	29,516	57,956	2,744	50	2,397	13,503
Minnesota.....	1,121	4,553	914	1,813	3,291	7,392	7,584	13,990	606	14	643	4,040
Nebraska.....	239	803	190	380	556	1,768	1,842	3,458	193	5	201	799
South.....	9,000	36,215	6,890	14,384	22,782	67,181	68,336	144,493	7,510	75	6,678	37,658
Maryland.....	1,427	6,554	1,028	2,185	3,720	11,112	11,574	22,124	1,018	9	1,450	8,552
Florida.....	531	1,639	441	829	1,233	3,071	3,049	6,040	754	8	354	1,691
Kentucky.....	677	2,418	544	1,072	1,664	5,412	4,909	10,764	469	7	448	2,993
Oklahoma.....	236	630	179	368	401	1,203	1,507	2,379	1,551	3	143	664
West.....	3,166	41,523	7,083	14,604	27,721	74,748	75,661	146,029	7,269	128	6,814	45,860
Washington.....	254	993	201	382	690	1,801	1,927	4,323	323	3	138	922
California.....	8,284	38,380	6,323	13,083	25,271	69,411	70,121	135,062	6,428	120	6,235	42,292

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--QUANTITY AND VALUE OF PLASTICS PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes quantity and value of these products reported not only by establishments classified in the Plastics Products, N.E.C. Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3971----	Plastic products, n.e.c., total.....		xxx	xxx	1,880,162	xxx	xxx	1,254,542
39711--	Molded plastic products.....		xxx	xxx	634,996	xxx	xxx	529,674
	Non-reinforced molded products:							
3971111	Compression and transfer.....		xxx	xxx	106,164	xxx	xxx	138,749
3971121	Cast.....		xxx	xxx	14,326	xxx	xxx	11,298
3971131	Injection.....		xxx	xxx	317,595	xxx	xxx	1304,751
3971151	Cold.....		xxx	xxx	2,929	xxx	xxx	19,064
3971171	Extrusion.....		xxx	xxx	76,512	xxx	xxx	143,570
3971181	Reinforced molded products.....		xxx	xxx	50,101	xxx	xxx	(⁵)
3971100	Molded plastic products, not specified by process.....		xxx	xxx	67,369	xxx	xxx	22,242
39712--	Laminated plastic sheets, rods, and tubes....		xxx	xxx	163,306	xxx	xxx	102,401
3971212	Thermoplastic sheets laminated on other materials, except wall coverings and packaging materials.....		(NA)	(NA)	21,018			
3971251	Thermoplastic rods and tubes.....		(NA)	(NA)	4,279			
	Thermosetting:							
	Sheets:							
3971261	Low pressure.....	Thousand pounds..	31,493	30,913	30,215			
3971271	High pressure:							
	Decorative.....	Thousand sq. yds.	43,668	42,284	64,109	xxx	xxx	102,401
	Other:							
3971275	Metal clad for printed circuits....	Thousand pounds..	4,360	3,999	6,381			
3971279	Other.....	do.....	17,873	13,870	18,560			
3971281	Rods and tubes.....	do.....	3,889	2,274	7,413			
3971200	Laminated plastic sheets, rods, and tubes not specified by kind.....		xxx	xxx	11,331			
39713--	Plastic household articles ²		xxx	xxx	127,790	xxx	xxx	39,958
3971312	Dinnerware.....	Thousand dozen pieces.	xxx	10,182	40,619			
3971319	Housewares, excluding sheet goods products..		(NA)	(NA)	72,759	xxx	xxx	39,958
3971300	Plastic household articles, not specified by kind.....		xxx	xxx	14,412			
39714--	Fabricated plastics products, n.e.c.....		xxx	xxx	599,833	xxx	xxx	390,319
	Expanded or foamed plastics: ³							
	Flexible:							
3971401	Urethane.....	Thousand pounds..	21,378	21,221	28,642			
3971402	Vinyl.....	do.....	(NA)	(NA)	8,482			
3971403	Other.....	do.....						
	Rigid:							
3971406	Urethane.....	do.....	160	157	239	xxx	xxx	17,746
3971407	Styrene.....	do.....	29,469	28,647	14,733			
3971409	Other.....	do.....	1,441	1,319	1,747			
	Products fabricated from laminates:							
	Thermosetting (including gears and bearings):							
3971412	High pressure.....		xxx	xxx	24,175	xxx	xxx	49,572
3971414	Low pressure.....		xxx	xxx	13,095	xxx	xxx	6,982
3971415	Other (including gears and bearings).....		xxx	xxx	4,481			
3971421	Miscellaneous plastic products:							
3971423	Artics and gaiters ⁴	Thousand pairs..	(NA)	(NA)	18,258	4,892	4,892	8,258
	Ballons (toys, advertising, and meteorological) ⁵		(NA)	(NA)	5,067	xxx	xxx	(⁶)
3971426	Battery jars, boxes, and parts (including asphalt):							
3971428	Jars and boxes.....	Thousand units....	9,548	10,790	5,490			
	Parts.....	Thousand.....	xxx	xxx	4,595	xxx	xxx	18,817
3971433	Druggist and medical sundries ⁷ :							
3971439	Nipples and pacifiers.....	Gross.....	(NA)	(NA)	835	xxx	xxx	(⁶)
	Other (including ice bags and caps, surgical tubing, etc.).....		xxx	xxx	2,621	xxx	xxx	1,938
3971441	Boats (inflatable), pontoons, and life rafts ⁸		xxx	xxx	(⁶)	xxx	xxx	1,163
	Shoe products:							
3971445	Heels.....	Thousand pairs....	75,989	76,104	16,832	xxx	xxx	(⁶)
3971446	Soles.....	xxx	xxx	xxx	(⁶)	xxx	xxx	(⁶)
3971447	Soling slabs and toplit sheets.....	xxx	xxx	xxx	(⁶)	xxx	xxx	(⁶)
3971453	Packing (for sealing moving parts) ⁵	xxx	xxx	xxx	(⁶)	xxx	xxx	1,495
	Floor, wall, counter coverings, etc., unsupported:							
3971462	Sheet goods.....	Thousand sq. yds.	(NA)	(NA)	5,524	2,481	2,507	3,308
	Tile:							
3971464	Floor.....	do.....	15,253	15,013	43,883	7,351	6,429	17,525
3971466	Wall.....	do.....	xxx	xxx	12,119	8,526	8,462	15,154

See footnotes at end of table.

Table 3.—QUANTITY AND VALUE OF PLASTICS PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954--Continued

Product code	Product	Unit of measure	1958			1954		
			Total production (quantity)	Total shipments including interplant transfers		Total production (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
3971---	Plastics products, n.e.c.--Continued							
39714---	Fabricated plastics products, n.e.c.--Continued							
	Miscellaneous plastic products--Continued							
	Closures:							
	Commercial, except collapsible tubes:							
3971472	For glass containers only.....	Thousand units...	3,248,144	3,250,712	24,453	xxx	xxx	20,425
3971473	For metal and plastic containers.....	.....	(NA)	(NA)	6,079			
3971474	Other, including caps for collapsible tubes.....	.....	(NA)	(NA)	3,246	xxx	xxx	2,046
	Hose, pipe, tubing, and fittings: ⁵							
3971481	Garden hose.....	Thousand pounds..	(NA)	(NA)	20,956	47,772	47,334	24,784
3971484	Other hose.....	..do.....	(NA)	(NA)	5,147	6,770	6,767	3,882
3971485	Tubing (under 1/2 inch interior diameter)	.....	(NA)	(NA)	8,493	xxx	xxx	5,573
	Pipe (over 1/2 inch interior diameter):							
3971488	Polyethylene.....	..do.....	38,496	38,510	20,919	26,576	26,326	18,486
3971489	Other.....	..do.....	15,852	14,455	10,534			
3971491	Fittings and unions.....	.....	(NA)	(NA)	4,922	(NA)	(NA)	(NA)
3971492	Doors, folding (accordion type), plastic or plastic coated fabric.....	.....	(NA)	(NA)	15,060	(NA)	(NA)	(NA)
3971493	Squeeze bottles, except housewares.....	.....	xxx	(NA)	22,195	(NA)	(NA)	(NA)
3971498	Other plastic products.....	.....	xxx	xxx	6212,622	xxx	xxx	144,817
3971400	Fabricated plastic products, n.e.c. not specified by kind.....	.....	xxx	xxx	34,389	xxx	xxx	28,348
39715---	Vinyl and polyethylene unsupported film and sheeting, excluding floor and wall covering total ⁷		xxx	xxx	271,314	xxx	xxx	169,067
28234---			xxx	xxx	219,771	xxx	xxx	xxx
39715---			xxx	xxx	51,543	xxx	xxx	xxx
28234---			xxx	xxx		xxx	xxx	xxx
	Vinyl and vinyl copolymer:							
3971511	Under 3.0 mils.....	Thousand pounds..	(NA)	(NA)	35,319	27,116	26,955	22,175
2823411								
3971515	3.0-3.9 mils.....	..do.....	26,617	(NA)	15,389	35,633	35,835	19,122
2823413								
3971518	4.0-5.9 mils.....	..do.....	34,094	(NA)	18,566	43,007	42,986	21,446
2823415								
3971531	6.0-9.9 mils.....	..do.....	24,210	(NA)	12,081	15,495	15,937	9,357
2823417								
3971535	10.0-14.9 mils.....	..do.....	81,989	(NA)	37,479	50,031	48,055	27,378
2823421								
3971541	15.0-19.9 mils.....	..do.....	36,666	(NA)	13,763	33,509	33,339	16,367
2823423								
3971545	20.0 mils and over.....	..do.....	(NA)	(NA)	7,110	20,855	20,475	15,327
2823425								
	Polyethylene:							
3971561	Under 1.0 units.....	..do.....	16,113	15,588	8,082	47,024	46,196	31,859
2823452								
3971563	1.0-1.4 mils.....	..do.....	59,802	60,164	31,698	9,029	8,936	5,943
2823454								
3971565	1.5-2.9 mils.....	..do.....	53,170	53,052	28,167	9,029	8,936	5,943
2823456								
3971567	3.0-9.9 mils.....	..do.....	49,388	49,415	26,728	9,029	8,936	5,943
2823458								
3971569	10.0 mils and over.....	..do.....	3,302	3,262	1,841	9,029	8,936	5,943
2823459								
3971500								
2823400	Vinyl polyethylene unsupported film and sheeting, excluding floor and wall coverings, not specified by kind.....	.....	xxx	xxx	35,091	xxx	xxx	93
3971000	Plastics products, not specified by process or by kind.....	.....	xxx	xxx	82,923	xxx	xxx	23,123

¹Code 3971181 not separately reported; included in codes 3971111 through 3971171.²In 1954, described as "Table and kitchen articles."³Includes information for porous, cellular materials used in thermal, electrical, and sound insulation, buoys, core materials, etc.⁴For comparable data relating to rubber products, see Industry 3021, "Rubber Footwear."⁵For comparable data relating to rubber products, see Industry 3099, "Rubber Products, N.E.C."⁶Codes 3971441, 3971446, 3971447, and 3971453 included in product code 3971498.⁷Includes amounts manufactured in plants which produce resins as well as those which purchase resins; also includes unspecified amounts made from reprocessed materials.

USCOMM--DC

1958 CENSUS OF MANUFACTURES
PUBLICATION PROGRAM

Following publication of preliminary reports, the results of the 1958 Census of Manufactures will be issued as follows:

Final Industry Reports

Approximately 80 reports, each covering one or two 3-digit industry groups. For all manufacturing industries, based on the new SIC (July 1957 edition). Includes historical and geographic statistics as well as tables on size of establishment; industry-primary product relationships; detailed products in terms of quantity and value of shipments; individual materials used; product class shipments by State; and other industry data.

Final Area Reports

A report for each State, including Alaska and Hawaii, using the new SIC codes. Statistics for the State by 4-digit industry, for standard metropolitan statistical areas by 3-digit industry, for selected industrial counties by 2-digit and 3-digit industry groups.

Final Subject Reports

Approximately 12 reports containing selected information on inventories, capital expenditures, size of establishment and other subjects taken from the industry and area reports and arranged in a subject matter order.

The final reports will be assembled into the bound volumes of the 1958 Census of Manufactures.

VOLUME I—SUMMARY STATISTICS

VOLUME II—INDUSTRY STATISTICS

VOLUME III—AREA STATISTICS

Bureau of the Census

WASHINGTON 25, D. C.

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39E-1

UMBRELLAS, PARASOLS, AND CANES INDUSTRY

(Industry Code 3995—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Umbrellas, Parasols, and Canes Industry shipped products valued at \$36 million, an increase of 11 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 9 percent from 1954 to 1958 to a total of 2.9 thousand employees in 1958. Value added by manufacture in the industry amounted to \$16 million in 1958, an increase of 8 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE UMBRELLAS, PARASOLS, AND CANES INDUSTRY IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3995)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.9	3.2	-9
Payroll.....	Million dollars...	10.1	9.4	+7
Production workers:				
Number.....	Thousands.....	2.6	2.9	-10
Man-hours.....	Millions.....	5.0	5.2	-4
Wages.....	Million dollars...	7.5	7.0	+7
Value added by manufacture, unadjusted ²	do.....	15.4	14.9	+3
Value added by manufacture, adjusted ³	do.....	15.7	14.6	+8
Cost of materials, fuel, electricity, and contract work ⁴	do.....	20.1	17.0	+18
Value of shipments ⁵	do.....	35.6	32.0	+11
Capital expenditures, new.....	do.....	(7)	(7)	xxx
Number of establishments with 20 or more employees ⁶	Number.....	43	45	-4

xxx Not applicable.

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁷Less than \$500 thousand.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Umbrellas, Parasols, and Canes Industry includes establishments engaged primarily in the manufacture of umbrellas, parasols, canes, and parts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Umbrellas, Parasols, and Canes Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Umbrellas, Parasols, and Canes Industry amounted to \$36 million. Of this total, \$33 million were products primary to the industry, \$2 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 95 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 95 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$35 million of umbrellas, parasols, and canes were shipped by all producers of these products. Of this total, \$33 million, or 95 percent, were shipped by plants classified in Industry 3995, Umbrellas, Parasols, and Canes, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE UMBRELLAS, PARASOLS, AND CANES INDUSTRY (S.I.C. CODE 3995) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	2,932	10,129	2,591	5,001	7,548	15,425	15,695	35,602	114	43	3,210	14,917
Northeast.....	2,340	8,339	2,057	4,008	6,339	13,618	12,846	29,166	111	37	2,669	12,495
New York.....	1,530	5,696	1,342	2,655	4,273	8,850	9,074	22,550	83	28	1,338	7,303
Pennsylvania.....	564	1,888	486	972	1,423	2,839	2,904	5,090	27	7	694	2,856
All other divisions.....	592	1,790	534	993	1,209	2,807	2,849	6,436	3	6	540	2,421

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF UMBRELLAS, PARASOLS AND CANES SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Umbrellas, Parasols and Canes Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments (\$1,000)	
		1958	1954
3995011	Umbrellas, parasols, and canes.....	34,775	32,409

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON 25, D. C.

OFFICIAL BUSINESS

**POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE**

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

March 1960

MC(P)-39E-2

SODA-FOUNTAIN AND BAR EQUIPMENT INDUSTRY

(Industry Code 3997--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Soda-Fountain and Bar Equipment Industry shipped products valued at \$18 million, a decrease of 15 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 29 percent from 1954 to 1958 to a total of 1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$9 million in 1958, a decrease of 19 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SODA-FOUNTAIN AND BAR EQUIPMENT INDUSTRY, IN THE UNITED STATES: 1958 AND 1954

(Standard Industrial Classification Code 3997)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	1.0	1.4	-29
Payroll.....	Million dollars...	5.0	6.4	-22
Production workers:				
Number.....	Thousands.....	0.7	1.1	-36
Man-hours.....	Millions.....	1.4	2.2	-36
Wages.....	Million dollars...	3.2	4.5	-29
Value added by manufacture, unadjusted ².....	...do.....	9.3	10.8	-14
Value added by manufacture, adjusted ³.....	...do.....	8.9	11.0	-19
Cost of materials, fuel, electricity, and contract work ⁴.....	...do.....	8.8	10.0	-12
Value of shipments ⁵.....	...do.....	18.1	21.4	-15
Capital expenditures, new.....	...do.....	(6)	(6)	(NA)
Number of establishments with 20 or more employees ⁶	Number.....	11	15	-27

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments."

⁶Less than \$500 thousand.

⁷Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Soda-Fountain and Bar Equipment Industry includes establishments engaged primarily in the manufacture of soda-fountains and beer dispensing equipment. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Soda-Fountain and Bar Equipment Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Soda-Fountain and Bar Equipment Industry amounted to \$18 million. Of this total, \$16 million were products primary to the industry, \$1 million were products primary to other industries, and \$1 million were receipts for miscellaneous activities. The industry shipments of primary products represented 93 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 83 percent.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$23 million of soda-fountain and bar equipment were shipped by all producers of these products. Of this total, \$16 million, or 72 percent, were shipped by plants classified in Industry 3997, Soda-Fountain and Bar Equipment, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SODA-FOUNTAIN BAR EQUIPMENT INDUSTRY (S.I.C. CODE 3997) BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958									1954		
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	970	4,966	700	1,396	3,151	9,284	8,937	18,111	134	11	1,445	10,808
North Central.....	667	3,634	462	877	2,288	7,039	6,802	13,049	84	6	845	7,043
All other divisions.....	303	1,332	238	519	863	2,245	2,135	5,062	50	5	599	3,763

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF SODA FOUNTAIN AND BAR EQUIPMENT SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Soda-Fountain and Bar Equipment Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3997---	Soda-fountain and bar equipment, total.....	22,531	22,016
3997011	Soda-fountain equipment (cooler box, fountainette, and similar equipment).....	14,221	15,974
3997051	Beer dispensing equipment.....	6,776	3,293
3997000	Soda-fountain and bar equipment, not specified by kind.....	1,534	2,749

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-39E-3

SIGNS AND ADVERTISING DISPLAYS INDUSTRY

(Industry Code 3993--SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Signs and Advertising Displays Industry shipped products valued at \$457 million, an increase of 26 percent over 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed an increase of 7 percent from 1954 to 1958 to a total of 36.1 thousand employees in 1958. Value added by manufacture in the industry amounted to \$274 million in 1958, an increase of 26 percent from 1954 when the

previous census was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.--GENERAL STATISTICS FOR THE SIGNS AND ADVERTISING DISPLAYS INDUSTRY IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3993)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	36.1	33.6	+7
Payroll.....	Million dollars...	172.8	135.6	+27
Production workers:				
Number.....	Thousands.....	27.9	26.2	+6
Man-hours.....	Millions.....	54.6	51.7	+6
Wages.....	Million dollars...	118.7	90.6	+31
Value added by manufacture, unadjusted ²	do.....	273.6	216.7	+26
Value added by manufacture, adjusted ³	do.....	278.7	219.9	+27
Cost of materials, fuel, electricity, and contract work ⁴	do.....	179.8	142.9	+26
Value of shipments ⁵	do.....	456.8	362.1	+26
Capital expenditures, new.....	do.....	13.4	7.0	+91
Number of establishments with 20 or more employees ⁶	Number.....	459	394	+16

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00.

The Signs and Advertising Display Industry includes establishments engaged primarily in the manufacture of electrical, mechanical, cut-out, or plate signs and advertising displays, including neon signs and advertising novelties. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Signs and Advertising Displays Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Signs and Advertising Displays Industry amounted to \$457 million. Of this total, \$352 million were products primary to the industry, \$56 million were products primary to other industries, and \$49 million were receipts for miscellaneous activities. The industry shipments of primary products represented 86 percent of the total manufactured product shipments (primary and secondary). The 1954 ratio was 93 percent.

The total value of shipments for the industry, which is the total value of receipts

of establishments classified in the industry, should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$406 million of Signs and Advertising Displays were shipped by all producers of these products. Of this total, \$352 million, or 87 percent, were shipped by plants classified in Industry 3993, Signs and Advertising Displays, while the remainder was shipped by plants classified in other industries.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final State reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh Census of Manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.--GENERAL STATISTICS FOR THE SIGN AND ADVERTISING DISPLAYS INDUSTRY (S.I.C. CODE 3993) BY REGION AND STATE: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	36,114	172,837	27,894	54,615	118,714	273,610	278,695	456,793	13,413	459	33,581	216,666
New England.....	1,579	7,037	1,255	2,475	4,989	10,696	10,940	18,430	502	20	1,189	7,138
Massachusetts.....	1,032	4,632	818	1,627	3,284	6,827	7,054	12,024	363	14	710	4,209
Middle Atlantic.....	9,847	44,988	7,874	15,379	31,940	72,134	72,226	119,870	3,346	135	9,440	60,321
New York.....	6,437	29,216	5,182	10,164	20,740	47,570	47,572	78,649	2,085	89	6,087	38,736
New Jersey.....	1,273	6,009	1,033	2,025	4,358	9,276	9,277	16,755	621	17	1,468	9,622
Pennsylvania.....	2,137	9,763	1,659	3,190	6,842	15,288	15,377	24,466	640	29	1,885	11,962
East North Central.....	10,686	55,163	8,211	16,555	35,906	87,072	87,772	147,811	3,905	136	10,563	70,618
Ohio.....	3,091	15,023	2,383	4,760	10,170	22,478	22,727	38,561	736	40	3,332	21,811
Indiana.....	601	2,647	480	947	1,816	3,983	4,342	8,629	180	7	525	3,531
Illinois.....	4,575	24,546	3,476	7,206	15,661	39,073	38,981	64,629	1,738	56	4,547	30,716
Michigan.....	1,160	7,277	872	1,693	4,463	12,302	12,313	18,804	642	20	1,210	9,015
Wisconsin.....	1,259	5,670	1,000	1,949	3,726	9,236	9,409	17,188	609	13	948	5,543
West North Central.....	3,425	14,720	2,581	4,909	9,671	24,370	26,245	41,796	1,395	51	3,239	19,682
Iowa.....	627	2,410	418	772	1,401	4,872	5,982	9,145	195	4	574	3,481
Missouri.....	1,278	5,360	978	1,930	3,447	8,051	8,752	14,360	251	20	1,217	7,072
South Atlantic.....	2,188	9,497	1,737	3,368	7,252	15,453	15,850	24,587	739	21	1,744	10,115
Virginia.....	506	2,390	420	859	1,795	3,092	3,341	6,008	(D)	4	414	2,214
Florida.....	755	3,411	585	1,117	2,590	5,318	5,408	8,303	306	9	483	2,859
East South Central.....	982	4,218	753	1,379	2,814	6,409	6,607	12,577	365	14	986	5,558
Kentucky.....	299	1,184	239	459	860	1,508	1,536	3,270	(D)	5	396	1,844
West South Central.....	1,860	8,143	1,448	2,783	5,808	12,091	12,822	22,209	915	15	1,696	9,198
Oklahoma.....	336	1,349	260	487	989	2,638	2,705	4,195	(D)	3	275	1,414
Texas.....	1,085	4,942	834	1,672	3,482	6,767	7,421	14,097	568	8	1,206	6,571
Mountain.....	1,014	4,657	768	1,449	3,589	7,580	7,654	11,450	455	15	888	5,705
Colorado.....	273	1,307	188	366	932	2,174	2,242	3,039	128	6	294	2,171
Pacific.....	4,533	24,414	3,267	6,318	16,745	37,805	38,579	58,063	1,791	52	3,830	28,328
Washington.....	435	2,246	305	565	1,654	2,955	2,975	4,278	(D)	5	443	3,064
Oregon.....	284	1,512	197	317	987	2,567	2,595	3,551	264	4	340	2,189
California.....	3,814	20,656	2,765	5,436	14,104	32,283	33,009	50,234	1,383	43	3,047	23,073

D Withheld to avoid disclosing figures of individual companies.

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.⁴For explanation see text under "Value of shipments."⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.--VALUE OF SIGNS AND ADVERTISING DISPLAYS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Signs and Advertising Displays Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3993----	Signs and advertising displays, total.....	405,502	329,894
3993111	Luminous tube and bulb signs.....	100,009	82,123
39932--	Nonelectric signs and advertising displays, total.....	193,148	178,529
	Metal signs, by any application process (include point-of-sale signs, road signs, truck signs, highway and street markers, and all other metal signs):		
3993211	Porcelain enameled.....	17,448	11,320
3993219	All other metal signs.....	32,273	22,141
3993221	Screen processed signs (other than metal).....	13,423	17,514
3993231	Window, backbar, counter, and lobby cutouts and displays.....	38,955	36,642
3993298	All other signs and advertising displays (including sign letters).....	68,639	67,260
3993200	Nonelectric signs and advertising displays, not specified by kind.....	22,410	23,652
3993311	Advertising novelties.....	58,523	42,180
3993000	Signs and advertising displays, not specified by kind.....	53,822	27,062

1958 Census of Manufactures

Industry and Product Reports

(Subject to Revision)

April 1960

MC (P)-39E-4

FURS, DRESSED AND DYED INDUSTRY

(Industry Code 3992—SIC system in use through 1957)

(Advance information on industries and products covered in the 1958 Census of Manufactures. This report will be superseded by a 1958 Census of Manufactures final report which, in turn, will be included in Volume II, Industry Statistics.)

During 1958, manufacturers in the Furs, Dressed and Dyed Industry shipped products valued at \$27 million, a decrease of 7 percent from 1954, according to preliminary results obtained from the 1958 Census of Manufactures conducted by the Bureau of the Census, Department of Commerce. Average employment in this industry showed a decrease of 23 percent from 1954 to 1958 to a total of 2.7 thousand employees in 1958. Value added by manufacture in the industry amounted to \$21 million in 1958, a decrease of 10 percent from 1954 when the previous census

was taken. Value added is derived by subtracting the cost of materials, fuels, etc., from value of shipments. It avoids the duplication in the value of shipments which results from the use of products of some manufacturing establishments as materials by others, and is for most purposes, the best value measure available for comparing the relative economic importance of manufacturing industries or geographic areas. No adjustments have been made in the money figures shown in this report for changes in price levels from 1954 to 1958.

Table 1.—GENERAL STATISTICS FOR THE DRESSED AND DYED FURS INDUSTRY, IN THE UNITED STATES: 1958 AND 1954
(Standard Industrial Classification Code 3992)

Item	Unit of measure	1958 ¹	1954 ¹	Percent change 1954 to 1958
All employees:				
Number.....	Thousands.....	2.7	3.5	-23
Payroll.....	Million dollars...	16.7	16.4	+8
Production workers:				
Number.....	Thousands.....	2.3	3.0	-23
Man-hours.....	Millions.....	4.2	4.8	-12
Wages.....	Million dollars...	13.1	13.1	-
Value added by manufacture, unadjusted ².....	..do.....	21.4	23.9	-10
Value added by manufacture, adjusted ³.....	..do.....	21.5	24.0	-10
Cost of materials, fuel, electricity, and contract work ⁴.....	..do.....	4.6	5.3	-13
Value of shipments ⁵.....	..do.....	27.1	29.2	-7
Capital expenditures, new.....	..do.....	(7)	(7)	xxx
Number of establishments with 20 or more employees ⁶	Number.....	31	35	-11

¹The figures in this report include the results for establishments located in the continental United States. Since Alaska and Hawaii were not States until 1959, they will be covered in separate reports.

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴Includes cost of products bought for resale without further manufacture, processing, or assembly.

⁵For explanation see text under "Value of shipments." Includes value of resales for both years.

⁶Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

⁷Less than \$500 thousand. xxx Not applicable.



U.S. DEPARTMENT OF COMMERCE, Frederick H. Mueller, Secretary

BUREAU OF THE CENSUS, Robert W. Burgess, Director

For Sale by Bureau of the Census, Washington 25, D. C., and U. S. Department of Commerce Field Offices. 10 cents.

Complete set of approximately 375 preliminary Census of Manufactures reports, \$35.00

The Furs, Dressed and Dyed Industry includes establishments engaged primarily in the manufacture of scraping, burrying, tanning, bleaching, and dying pelts. This report does not include figures for administrative offices, warehouses, garages, or other auxiliary units which service manufacturing establishments.

This report is based upon the 1945 edition of the Standard Industrial Classification (SIC) Manual definitions of industries. The final industry reports will include industry statistics classified according to the 1957 edition of the SIC Manual which includes extensive revisions of industry definitions in the manufacturing sector.

ESTABLISHMENTS

The Census of Manufactures is conducted by obtaining a separate report for each establishment. Businesses with no employees are excluded from the scope of the census. Of almost 300,000 manufacturing establishments covered in the 1958 Census, most are operated by single-establishment companies. A single report was obtained from these companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports if the company records permitted such a separation, and if the separate activities were substantial in size.

The preliminary reports in the 1958 Census of Manufactures include for each industry a count of the number of operating establishments with 20 or more employees, with comparable figures for 1954. The number of establishments with less than 20 employees will be shown in the final industry reports.

VALUE OF SHIPMENTS

The value of shipments reported by establishments classified in Furs, Dressed and Dyed Industry consisted not only of products described above as primary to the industry, but also included the value of secondary products (which are primary in other industries), and miscellaneous receipts for contract work, resale of products, etc. The total value of shipments and other receipts of establishments classified in the Furs, Dressed and Dyed Industry amounted to \$29 million. Of this total, \$18 million were on products primary to the industry and on dressing and dyeing skins for others on a commission basis; \$11 million were products primary to other industries.

The total value of shipments for the industry, which is the total value of receipts of establishments classified in the industry,

should be clearly distinguished from the total value of primary products of the industry shipped by all producers. The latter figure, appearing in table 3, indicates that \$12 million of furs, dressed and dyed were shipped by all producers of these products.

GENERAL STATISTICS

The general statistics (employment, payrolls, cost of materials, value of shipments, etc.) are reported for each establishment as a whole. Aggregates of such figures for an industry reflect not only the primary activities of the establishments in that industry, but also their activities in the manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 and 2) with product statistics (table 3) which show the shipments by all producers of the primary products of the industry.

PUBLICATION PROGRAM AND BACKGROUND

More detailed figures for this industry will appear in the final Census reports, which will be published and offered for sale at a later date by the Superintendent of Documents, U. S. Government Printing Office. These reports will also include a comprehensive discussion of such concepts as "industry," "establishments," and "secondary production," as well as the various statistical items such as "employment," "value added," etc. Similar preliminary and final reports will be issued for other industries during the coming months. A series of preliminary summary reports showing United States totals for each manufacturing industry and for each State are being issued. Final industry reports and final area reports will be published during the spring and summer of 1960. Order forms which list these reports and their prices may be obtained from any U. S. Department of Commerce Field Office or by writing to the Bureau of the Census, Washington 25, D. C.

The 1958 Census of Manufactures is the twenty-seventh census of manufacturing establishments in the United States. The first Census of Manufactures was conducted in 1810 covering manufacturing activities in 1809. For 1958, it was conducted jointly with Censuses of Mineral Industries, Retail, Wholesale, and Service Trades. The 1958 Census of Manufactures was conducted under authority of Title 13 of the United States Code. This law requires that a Census of Manufactures be conducted every five years to cover years ending in three and eight. Thus, the next Census will be conducted in 1964 covering manufacturing activity in 1963. Title 13 also authorizes an annual sample survey of manufacturing establishments in interim years.

1958 CENSUS OF MANUFACTURES

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Table 2.—GENERAL STATISTICS FOR THE DRESSED AND DYED FURS INDUSTRY (S.I.C. CODE 3992), BY REGIONS AND STATES: 1958 AND 1954

Region and State ¹	1958										1954	
	All employees		Production workers			Value added by manufacture		Value of shipments ⁴	Capital expenditures, new	No. of establishments with 20 or more employees ⁵	All employees, number	Value added by manufacture, unadjusted ²
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Unadjusted ² (\$1,000)	Adjusted ³ (\$1,000)					
United States, total.....	2,699	16,663	2,266	4,207	13,119	21,377	21,545	27,053	233	31	3,459	23,901
Northeast.....	2,386	14,705	2,026	3,723	11,798	18,449	18,614	23,614	108	29	3,099	21,066
New York.....	1,642	10,295	1,377	2,535	8,670	13,196	13,349	16,553	70	20	2,090	15,146
New Jersey.....	635	4,005	551	1,026	2,823	4,590	4,592	5,977	28	7	931	5,157
North Central, South, and West.....	917	1,958	240	484	1,321	2,928	2,931	3,459	125	2	358	2,827

¹Each producing State not shown separately in the above table was withheld either (a) to avoid disclosing figures for individual companies, in this or associated industries or areas, or (b) because the industry was of relatively minor economic importance in the State. (Additional publishable detail will appear in the final Census report on this industry.)

²Value of products shipped less cost of materials, supplies, fuel, electricity, and contract work.

³Adjusted value added by manufacture is the sum of (a) unadjusted value added, plus (b) the difference resulting from the purchase and resale of products without further manufacture, processing, or assembly, plus (c) the net change in finished products and work-in-process inventories between the beginning and end of year.

⁴For explanation see text under "Value of shipments."

⁵Except for "Number of establishments with 20 or more employees," the figures shown in the table are based on reports for all establishments (including those with less than 20 employees) classified in the industry.

Table 3.—VALUE OF DRESSED AND DYED FURS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1958 AND 1954

(Includes value of these products reported not only by establishments classified in the Dressed and Dyed Furs Industry but also by establishments making these items as "secondary" products in other industries. See text under "Value of shipments")

Product code	Product	Value of shipments including interplant transfers (\$1,000)	
		1958	1954
3992011	Dressed and Dyed Furs ¹	11,699	6,284

¹Represents the relatively small number of fur skins purchased, dyed or dressed, and sold by the reporting company. In addition, large numbers of fur skins were dyed or dressed on commission for others.

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